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EQUIPMENT REGULATIONS
1899.
GARRISON ARTILLERY
DETAILS

MILITARY BOOKS.

Published by Authority.

LONDON:
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38407
Equipment
1800

REGULATIONS

FOR THE

EQUIPMENT OF THE REGULAR ARMY.

PART 2.—SECTION XII.

GARRISON ARTILLERY.
SPECIAL INSTRUCTIONS AND DETAILS.

WAR OFFICE,

1899.

LONDON:
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A. "Regulations for Magazines and the Preservation of Artillery Matériel."

i.—Care and preservation of ordnance mountings, and their fittings, rope mantlets, and hydraulic lifting jacks.

ii.—Inspection of ordnance in so far as it relates to Royal Artillery.

iii.—Machinery for mounting and working heavy guns on sea fronts.

iv.—Arrangement of stores in works.

v.—Re-filling elevating and traversing arcs, and yard scale plates.

vi.—Scraping, &c., projectiles.

vii.—Destruction of unexploded shells.

viii.—Filling "paper shot."

ix.—Re-priming and re-bridging electric drill tubes.

B. "Regulations for the Army Ordnance Services."

i.—Inspection of ordnance.

ii.—Instructions for guidance of examiner in inspection of ordnance.

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PART 2

SECTION XII.—ARTILLERY.
SPECIAL INSTRUCTIONS AND DETAILS.

GARRISON ARTILLERY.

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II.—DETAILS OF EQUIPMENT.

I.—SPECIAL INSTRUCTIONS.

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1.—DUTIES OF OFFICERS.

Half-yearly inspection of armaments.

57 / Gen. No. / 8193

1. In order to ensure that the ordnance, carriages, slides, ammunition, and stores forming the armaments in charge of the Royal Artillery, are kept in a thorough state of efficiency, the officer commanding Royal Artillery in a district, or an officer deputed by him, will make an inspection of the same twice a year.

Joint Inspection by R.A., R.E. and A.O.D.

2. The officer commanding Royal Artillery will arrange for one of these inspections to be made at the time of the general inspection referred to in paragraph 73, Part I.

Report to be sent to G.O.C.

57 / Gen. No. / 9010

3. All points in connection with existing works and armaments, which are raised in consequence of these inspections, will be dealt with locally if possible. If, however, War Office action is necessary, each question for consideration should be submitted, in a separate letter, by the general officer commanding to the Under Secretary of State for War.

Return shewing stores 6 months due from A.O.D.

4. In the case of stores still due from the principal ordnance officer, Woolwich, to complete armaments, which have been demanded by the Royal Artillery for six months and over, a return on Army Form G 1085, showing the stores in detail with the Woolwich issue order quoted against them, should be furnished half-yearly, on the 1st January and the 1st July, in the case of stations abroad, and 1st March and 1st September in case of Districts at Home. Stores that can be supplied locally from the army ordnance department to meet deficiencies should be issued at once, and not entered on Army Form G 1085.

Proposals for alterations in or new armaments.

5. Any alteration proposed in existing works or armaments, or any proposals for new works or armaments, should be submitted separately, after being fully considered at the station. They should be accompanied by a joint report of the officer commanding Royal Artillery and the commanding Royal Engineer, and by such drawings and estimates as may be necessary for their consideration at the War Office.

Quarterly report by inspector of ordnance machinery.

57
Portsmouth
2752

6. The inspector of ordnance machinery reports quarterly in his district. In districts where no inspectors of ordnance machinery are appointed, arrangements will be made to detail an inspector from another district to make periodical inspections of the gun mountings. The reports on these inspections will be addressed to the officer commanding Royal Artillery of the district concerned, who will forward extracts of such portions of it as cannot be dealt with locally, with his remarks thereon, to the general officer commanding, for transmission to the War Office.

Artillery district store accounts.

7. Officers commanding artillery districts will cause accounts to be kept and rendered in accordance with the detailed instructions for keeping these accounts as given in paragraphs 218 to 239.

Headquarter staff of R.A. districts and R.A. staff clerks.

8. The arms, accoutrements, tools, saddlery, and other equipment, for use of the headquarters staff of Royal Artillery districts, the equipment of Royal Artillery Staff Clerks, and tools supplied under paragraph 247, Part I, will be demanded by the officer commanding the depôt company, or where no depôt exists, by a service company of garrison artillery in the district to be detailed by the officer commanding Royal Artillery.

Arms and accoutrements for district establishments, &c.

9. Non-commissioned officers and men of the District Establishment will be supplied with arms and accoutrements by the service company or companies in the district to which they are permanently attached for duty.

10. The arms and accoutrements in possession of the following warrant and non-commissioned officers, viz. :—

Master Gunners,
Serjeants-Major,
Superintending Clerks,
Quarter-Master Serjeants,
Military Staff Clerks,
Orderly Room Serjeants,
Serjeant Trumpeters,
Serjeant-Instructors in Gunnery,
Serjeant Cooks,

will be accounted for by the depôt or service company in the district to which they are attached. All new sets required will be supplied by the Army Ordnance Department duly marked. The necessary information as regards marking each set will be obtained from the officer commanding, Royal Artillery regimental district staff, Woolwich, and will be stated on the requisition. Once issued, they will remain in the possession of, and be taken away on transfer by, the warrant or non-commissioned officer, so long as he is entitled to such equipment. In cases of promotion necessitating a change of equipment, or when a man becomes non-effective from any cause, the arms and accoutrements will be returned to the nearest Ordnance store for disposal, and a report of the same made by the officer handing in the equipment, to the officer commanding Royal Artillery district staff, Woolwich.

2.—GENERAL SUPPLY OF EQUIPMENT.

Estimates for Equipment.

Artillery estimates.
38407
Equip.
1906

11. The annual estimates for artillery services will be prepared in a consolidated form by the O.C.R.A. as follows:—Stores required for maintenance of armaments on Army Form G 800, and those for all other services on Army Form G 801.

Stores to be kept distinct in artillery estimates.

12. Officers commanding Royal Artillery, in preparing their annual consolidated estimates, will show in detail the positions of the pieces mounted in works; the number of rounds of ammunition for each piece in their charge; and the nature and number of dismounted ordnance in charge, with the reasons why they are dismounted; also all changes in the armaments, and in the proportions of ammunition held in Royal Artillery charge, occurring since the last estimate, quoting the authority under which such changes have been made.

Ammunition for militia and volunteer artillery.

13. Officers commanding artillery districts will make provision in their annual estimates for gun ammunition for practice and exercise of the militia and volunteer artillery in their respective districts.

Orders with regard to additional guns.
57
Malta
1653

14. Additional guns or guns of different calibre and the equipments therefor, either for increasing or changing the armaments, will not be demanded or estimated for without War Office authority.

Stores for ordnance about to be withdrawn.

15. Estimates for stores will not be made on account of ordnance about to be withdrawn from the defences within the year for which the estimates are framed.

Requisitions.

Requisitions for equipment.
57
Gen. No.
7029

16. Requisitions for the equipment of armaments based upon the approved estimates will be put forward by the officer commanding Royal Artillery separately on the prescribed forms, and rendered in duplicate to the chief ordnance officer of the station.

Requisitions for paint and materials for care and preservation
...
7029

17. Requisitions for paint and cleaning materials provided for in the approved estimates will be prepared on Army Form G 1029, and will show in detail the description and quantities required and the nature and number of guns, carriages, &c., for which requisitioned.

Return of Ammunition into Store and Destruction of Shells.

Return to store of filled shells and cartridges.
57
Gib.
6888

18. Filled shells and cartridges will not be emptied before return to ordnance charge. If Royal Artillery working parties are required at any station by the Army Ordnance Department to empty ammunition in store which belonged to the armament of the station, such working parties will not receive extra duty pay.

Newest ammunition and stores to be returned.

19. When returning ammunition or combustible stores to the Army Ordnance Department intact from any work the newest ammunition and stores of the specified nature to be sent in, on charge in that particular work will be returned; those of earlier dates being retained and used up as opportunities offer.

Search for projectiles after artillery practice.
57
Exeter.
205

20. Immediately on the close of artillery practice each day, search will be made on the ranges for unexploded projectiles. Plugged shells not filled with explosives, and shot which may be found, will be handed over to the Army Ordnance Department; but all fuzed shells and all filled plugged shells will be destroyed *in situ* as laid down in the Regulations for Magazines, &c.

Stores for destruction of shells.

21. A set of stores for the destruction of shells, together with such quantity of guncotton and detonators as may be considered necessary, will be allowed to all land ranges, and will be demanded in the undermentioned proportions and accounted for by the officer commanding Royal Artillery in camp :—

MATERIALS REQUIRED FOR EACH CHARGE.

Woolwich Section No. 2.

	No.
Bags, sand, common	4

Woolwich Section No. 21.

		No.
Guncotton	dry primers, D., 1¼ in. × 1¼ in., one perforation	1
	wet slabs, Q., 6⅛ in. × 6⅛ in. × 1⅛ in., two perforations	1

Woolwich Section No. 22.

	No.
Detonators, electric, No. 13	1

STORES.

Articles.	No.	Remarks.
Woolwich Section No. 7.		
Cloth, emery, fine .. .. sheets	2	Cleaning ends of wire.
Pliers, side cutting, 7-inch .. pairs	1	
Woolwich Section No. 18.		
Twine, choking, 3-thread .. lb.	1	Securing charge
Woolwich Section No. 28.		
Exploders, dynamo, electric, quantity	1	
Materials for jointing, &c.—		
Solution I.R., ½-lb. tins	1	Repairing of defective wire.
Tape, indiarubber .. .. lb.	½	Repairing of defective wire.
Tools, jointers, telegraph—		
Knives, paring, telegraph jointers..	2	
Woolwich Section No. 29.		
Wire, covered, C 8 .. .. yards	2,000	Old field telegraph cable, unfit for general issue, would do if available.

38407
Equip.
1800

22. The regulations for packing and storing guncotton and detonators will be strictly observed (*see* Regulations for Magazines and Preservation of Artillery Matériel), and where there are no suitable buildings or sheds available for storage, tents will be used for the purpose.

Packing and storage of guncotton and detonators.

23. Rewards will be paid for the recovery of projectiles as laid down in the Regulations for the Army Ordnance Department.

Recovery of projectiles.
57
Exeter
205

24. Notices will be posted up in the vicinity of all ranges, cautioning civilians of the extreme danger of handling projectiles found on the range, and informing them that no rewards or payment of any description for finding shells, or collecting projectiles, will be paid to a civilian.

Range notices warning civilians against handling projectiles.

3.—EQUIPMENT FOR ARMAMENTS OF WORKS, PRACTICE BATTERIES, AND GARRISON ARTILLERY.

Instructions for the Maintenance of Armaments.

25. Details of the equipment of armaments of works will be found in the Details, pages 204 to 583, and of Garrison Artillery at pages 584 to 616; except 13·5-inch B.L. and 17·72-inch R.M.L. guns, the details for which have been printed separately, and issued to stations concerned.

Details of equipment for armaments.
57
Gen, No.
7563

Practice batteries.

54
Gen. No.
7473

25A. Details of the equipment and spare parts of 5-inch B.L. guns, and spare parts and special implements for 5-inch Vavasseur mountings, and carriages, garrison, Q.F. recoil, 3-pr., Mark I, supplied for practice batteries, are issued separately to stations concerned. Other practice batteries will be equipped with such stores as are necessary for the service of the guns, the equipment details of armament guns being taken as a guide.

Stores locally unnecessary, not to be demanded.

26. It is to be clearly understood that such stores as are included in the various details of equipments, &c., but which, owing to local conditions, are not required, will not be demanded.

York 5
100

Armaments fixed by Secretary of State.

27. The armaments of works of defence are determined by the Secretary of State, and no changes affecting such armaments will be made, except in cases of emergency, when the general officer commanding may take such measures as the necessities of the service demand, reporting his proceedings to the War Office.

Artillery matériel Reports, &c.

28. All reports and returns relating to artillery matériel, will be rendered as laid down in the Queen's Regulations.

Testing new armament.

38407
Equip.
1905

29. As new guns are mounted in works, or when guns are removed from an old emplacement and remounted in a new or remodelled emplacement, three rounds with projectiles, the first round being a half charge of powder, or a full charge of cordite in the case of B.L. or Q.F., and a reduced charge of powder or full charge of cordite in the case of R.M.L., will be fired from each B.L. or Q.F. gun of 6-inch and upwards, and R.M.L. gun of 6½ tons and upwards (except in the case of guns on hydro-pneumatic mountings, for which the first round must be a half charge of cordite or powder, and for guns not provided with half charges of cordite, a half charge of E.X.E. powder), to test the mountings, gear, and emplacements, and the general working and fighting condition of the gun. In cases, however, where guns are so mounted that service projectiles could not with safety be fired, paper shot will be used. In this firing test the full charges will also be utilized, with B.L. guns 6-inch and upwards, for expanding the obturating pads and discs which are issued unexpanded. One round will be sufficient to expand one obturator.

Expanding obturating pads.

Under whom carried out.

30. This trial should be carried out under officers appointed by the officers commanding Royal Artillery and Royal Engineers in the district, and all the particulars regarding the guns, mountings and gear, emplacements, ammunition service, &c., will be carefully noted by these officers, and embodied in the Record of Joint Inspection (Army Form G 951), which is to be considered strictly confidential.

Record of joint inspection.

57
Gen. No.
7084

Superintendence of testing armaments, &c.

31. When mountings have not been proved before issue, the three rounds ordered in paragraph 29 (and such other rounds as may be necessary, to be taken from the armament equipment) will be fired under the superintendence of the chief inspector, Woolwich, when practicable. Application for instructions for the first firing from any mountings should be made to the War Office. Officers of Royal Artillery and Royal Engineers should be appointed to attend this firing for the purpose of noting all particulars regarding the gun and mounting, and preparing the record alluded to in paragraph 30.

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* Also 5-inch B.L. on Vavasseur mountings for armaments.

How compiled and rendered.

...
7084

32. This "Record of Joint Inspection" (Army Form G 951) will contain a complete record of the whole of the ordnance forming the armament of works, and for general defence, and will have a plan attached showing all emplacements. It will be compiled with extreme exactness, and in accordance with instructions printed on the back of the form, and will receive the approval of, and be rendered in duplicate to, the War Office, by general officers commanding districts in which armaments are mounted. One copy will be for the use of the Inspector-General of Fortifications, and one for the use of the Inspector-General of Ordnance. Copies will also be kept in the offices of the officers commanding Royal Artillery and Royal Engineers.

Corrections and additions.

57
Gen. No.
7084

33. The records will be examined annually by these officers and corrected up to date. A joint certificate that this examination has been made, together with a copy of each corrected or additional entry, will be furnished annually to the War Office on the 1st of April from districts at home and from Halifax, N.S., and on the 1st of October from all other stations abroad, as directed in paragraph 4 of the instructions on the back of the form.

Ordnance and magazines in charge of R.A. and O.S.D. respectively.

34. All ordnance mounted on the defences, as well as all dismounted ordnance lying within the precincts of the batteries for which the commanding officer Royal Artillery is responsible, and all magazines containing any gunpowder in charge of the artillery, will be in charge of the Royal Artillery. All other ordnance and gunpowder will be in charge of the Army Ordnance Department.

Rules to be observed to avoid divided responsibility.

35. In order that there may be no divided responsibility between the Royal Artillery and the Army Ordnance Department as to the maintenance of the proportions of ammunition and stores, the following rules will be observed :—

Army Form G 908.

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1906

(*a*) When there is not sufficient accommodation in a work for the whole of the proportions, the ammunition and stores which cannot be retained by the Royal Artillery should be kept by the Army Ordnance Department, and the chief ordnance officer will be held responsible that they are kept complete, and ready for immediate issue. It is to be understood that these equipments, whether in charge of the Royal Artillery or the Army Ordnance Department, are independent of any reserves which it may be considered expedient to maintain at the station in charge of the Army Ordnance Department. A statement for each fort, etc., showing in detail the distribution of the armaments and their equipments, will be prepared in duplicate on Army Form G 908, by the officer commanding Royal Artillery and the chief ordnance officer in concert, for the approval of the general officer commanding. One copy will remain with the officer commanding Royal Artillery, another with the chief ordnance officer.

To be prepared in duplicate.

Responsibility for maintenance of proportions.

(*b*) The officer commanding Royal Artillery and the chief ordnance officer will be held responsible that the proportions to be kept up by each are duly maintained, and that all expenditure and exchanges are provided for in their respective estimates.

Amendments to G 908.

(*c*) All amendments rendered necessary by changes in armaments, &c., should be duly noted in the Form G 908, which should at all times be kept up to date; the chief ordnance officer being consulted from time to time as to the stores maintained in his charge.

Spare parts, how held on charge. 57 / Malta / 460

(*d*) The spare parts of guns, carriages, and slides and spare stores for armaments of districts, and for magazines in Royal Artillery charge will be held on charge by the Royal Artillery, and also by the Army Ordnance Department where this is specially provided for in the details.

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Those allowed per district or sub-district may be either held on charge by the Royal Artillery or kept by the Army Ordnance Department, as may be found most convenient.

Definition of the word "district."

36. The word "district" throughout the detailed tables of proportions will be understood to mean the extent of an artillery command in the United Kingdom or that of a station abroad.

Armament district.

37. The term "armament district" is used to define the extent of the charge of an accountant.

Sub-district.

38. The term "sub-district" is used to define the charge of a sub-accountant. A sub-district consists of one or more works grouped together, for convenience of administration and supervision, under a master gunner or acting master gunner.*

General supplies to batteries.

39. Articles of which the application is general and irrespective of the nature of ordnance, and which are supplied in certain proportions to each battery, will be demanded in the same amount, whether the armament of a battery comprises one or several classes of ordnance. In preparing requisitions for this class of stores, the local signification of the word "battery" must sometimes be departed from, and the entire armament of an enclosed fort, or of a portion of a line of defence, not too extensive for the convenient use of the stores, will be treated in all respects as though the pieces formed a single battery.

Signification of the word "battery."

Grouping of forts and batteries.

40. Forts and batteries can often be grouped together according to their importance and situation, in such manner that, as regards stores, a considerable reduction in the numbers laid down may be made with advantage. The same arrangement should be followed in respect of laboratories and their stores, the selection of the laboratories to be equipped being made with reference to such grouping. As an example, certain spare parts of B.L. guns are allowed per section of defence, and will be kept where most suitable.

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Not governed by nature of ordnance.

41. Articles of which the application is general and irrespective of the nature of ordnance, but which are supplied in proportion to the number of pieces, will be demanded on the general aggregate of the ordnance in the district for which the demand is made, without regard to the nature of the ordnance.

Certain supplies by districts of stations.

42. Articles, such as knock-up wrenches, transporting axle-trees, drugs, sling wagons, &c., of which the use is more or less general, are supplied for each district, station, or sub-district, and are not to be demanded for each nature of armament, although they may appear in more than one of the tables of equipment.

Stores for ordnance used for saluting, &c.

43. Ordnance used exclusively for saluting and signalling purposes, and time guns, will only be allowed such stores as are sufficient for carrying out the particular service.

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* In exceptional cases it may be found that the detailed table of stores allowed per sub-district does not quite fulfil, or in some instances exceeds, the requirements of the sub-district; such cases should, after the fullest consideration locally in connection with the Army Form G 908, be forwarded for War Office decision.

Instructions concerning Ammunition.

1.—*Cartridges and Projectiles.*

44. The number of rounds of ammunition to be maintained for armaments at home and abroad will be in accordance with the following table :—

No. of round of ammunition to be maintained for armaments.

	Number of rounds per piece to be maintained.	
	Home.	Abroad.
Rifled.		
13·5-in. B.L. guns	100	—
6-in. B.L. Mark VII	300	300
Other B.L. guns	100††	200
17·72-in. R.M.L. guns	—	100
Other R.M.L. guns and howitzers*	100 †	200 †
R.B.L. guns..	100	200
Movable armaments ‡	100	200**
Siege train companies	200 §	—
Quick Firing.		
6-in.	300	300
4·7-in.	300	300
12-pr.	400	400
6-pr.	506 (46 boxes)	506 (46 boxes)
3-pr.	512 (32 „)	512 (32 „)
Machine Guns.		
0·303-in.	11,000 (10 „)	11,000 (10 „)
Smooth Bore.		
32-pr. S.B., B.L.	25	50
Other S.B. ordnance	50	—

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Gen. No.
9954

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Gen. No.
8886

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9954

45. In connection with the inspections referred to in paragraph 1, the officer commanding Royal Artillery will cause a biennial examination of the date of manufacture of the machine gun ammunition held in Royal Artillery charge.

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Gen. No.
7835

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* 100 $\frac{1}{8}$-charges are allowed in addition for 9-in. R.M.L. guns on H.A. mountings.

† For R.M.L. guns, 9-in. and upwards, special case shot (with cordite cartridges) are allowed at the rate of 5 rounds per gun in addition—with a maximum of 30 rounds for any one nature of ordnance in a work—for certain guns which defend channels against torpedo boat attack; and at the rate of 20 rounds per piece in the case of certain guns which fire such special case shot only.

‡ Except Q.F. and machine guns.

§ 100 to be kept filled in Royal Artillery charge, and 100 empty in Army Ordnance Department charge.

** In the case of the 13-pr. R.M.L., at Malta, and the 7-pr. R.M.L. at Sierra Leone, a special reserve of 100 rounds per gun will be held in Army Ordnance charge, in addition.

†† For the 12-in. B.L. guns in Spithead Forts, case shot are allowed at the rate of 5 per cent. in addition.

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3
7715

57
Gen. No.
8886

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12
8727

If it is found that ammunition of a date more recent than that held in Royal Artillery charge is available in Army Ordnance Department charge, arrangements should be made for an exchange, provided that such exchange is not carried out in smaller quantities than the complete equipment of one gun.

Cartridges and shells be maintained filled.

46. All cartridges and shells in charge of the Royal Artillery will be kept filled.

Proportion in forts when expense magazines are near buildings.

47. At forts where the expense magazines are contiguous to other buildings, the proportion of filled cartridges and shells is not to exceed two rounds a gun, provided that a further supply of filled cartridges and shells can be stored at a convenient distance from the fort.

Loose powder.

48. The only loose powder that is to be kept in Royal Artillery charge will be that required for powder horns and blowing charges.

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6888

Insufficient store accommodation to be reported.

49. In cases where it is found, from circumstances connected with insufficient store accommodation, or for other reasons, that the orders contained in paragraphs 46 to 48 cannot be carried out, officers commanding Royal Artillery will report specially on the subject, through the general officer commanding to the War Office.

2.—*Fuzes and Tubes.*

Supply of fuzes, tubes, and laboratory stores.

50. In demanding fuzes, tubes, primers, and other laboratory stores supplied in sealed cylinders, the numbers given in the details of equipment will be adhered to as closely as possible ; but, in order to avoid the deterioration caused by unsealing cylinders for the issue of fractional parts of their contents, these numbers may be increased by the excess contained in one cylinder. All cylinders will therefore be issued full.

Storage of tubes and fuzes by R.A.

51. The whole of the fuzes and tubes forming portion of the equipment will be kept by the Royal Artillery in the works to which they are appropriated, except as mentioned in paragraph 53.

57
Gibraltar
6414

Dry stores only to be used.

52. Thoroughly dry stores should alone be used for the storage of fuzes and tubes, and subject to this condition and to the instructions contained in Regulations for Magazines, &c., any convenient building which is secure may be used.

Tubes and fuzes, when stored by A.O.D.

53. Should the store accommodation existing in a work not fulfil the conditions laid down in paragraph 52, then such proportions of fuzes and tubes as cannot be accommodated under those conditions will be kept in ordnance charge ready for immediate issue. The officer commanding Royal Artillery, and the chief ordnance officer, will see that they are correct in quantity and condition.

In war all to be with the guns.

54. In the event of war, the whole of the fuzes and tubes should be transferred to Royal Artillery charge and placed with the guns.

Cylinders not to be opened till wanted.

55. Cylinders containing the articles enumerated in paragraph 50, will on no account be opened, unless their contents are required for immediate use.

Detonators, &c., to be returned properly packed.

57. Detonators, fuzes, or tubes, especially those containing fulminate, will be returned into store properly packed.

Instructions concerning Miscellaneous Stores.

Range-finders.

58. Depression range-finders are allowed for coast batteries, and a list of such works, with the proportions approved for each, and instructions for the care and preservation of these instruments, will be found in Appendix II (pages 110 to 123).

Hydro-clinometers.

59. Hydro-clinometers are supplied to B.L. guns on barbette and V.C.P. carriages (except 6-inch B.L. Mark II barbette, and those with the shield in rear of the trunnions), and to R.M.L. guns, 9-inch and upwards, except 10·4-inch and 9-inch on Moncrieff and high-angle mountings, for the purpose of giving quadrant elevation and depression. They are not issued to guns the axis of whose trunnions is more than 500 feet above sea level.

Instructions for demanding and return to store.

57
Bodmin
455

57
Gen. No.
7990

60. When demanding these instruments a return, on the following form, must accompany the demand :—

District.	Battery.	Gun.				Height to which hydro-clinometer should be graduated in feet.	Ranges required.		Remarks.
		Nature.	Mark.	Number, as numbered in battery and group letter.	Height of axis of trunnions (gun run up) above mean sea level, in feet.		Minimum.	Maximum.	
1	2	3	4	5	6	7	8	9	10

With regard to column 7, hydro-clinometers are graduated to the nearest multiple of 5 feet *below* the true height; thus if the height of the axis of the trunnions is 66 and 64 feet, the hydro-clinometers would be graduated to 65 and 60 feet respectively.

With regard to columns 8 and 9, the ranges given must be determined so that the total quadrant elevation and depression does not exceed that allowed by the hydro-clinometer, which is 9 degrees for the Mark II and 13 degrees for the Mark IIA. Should the total quadrant elevation and depression required exceed that allowed by the hydro-clinometer, the most advantageous ranges, according to the particular locality of the gun for which the hydro-clinometer is required, must be chosen.

When a hydro-clinometer is returned to store a statement must invariably accompany it, giving the reason for its return; should it be returned for regraduation or repair, a return will be forwarded with it as in the case of a demand for a new instrument, the number of the instrument being stated in the column of remarks No. 10. A separate return must be forwarded for each hydro-clinometer.

Special stores for landing, mounting, &c., guns.

61. Lists of gear and stores for landing, transporting, mounting, and dismounting guns of 18 to 47 tons will be found in Appendix I (pages 95 to 107), and are supplied to districts, as laid down at page 108. These stores will be available for the general requirements of the forts in the district, and will be kept in Royal Artillery or army ordnance charge as directed. Care will be taken that the gear, &c., is kept in proper order, and is at all times ready and fit for use. To ensure this, and also that the men who would have to use the gear have a practical knowledge of its working, the officer commanding Royal Artillery will from time to time exercise the men in its use.

57
Portsmouth
3185

57
Weymouth
1287

57
Devonport
6969

62. Detailed lists of spare parts, special tools and stores, and consumable stores approved for use with the hydraulic gear and machinery at No Man's Land, Horse Sand, Nothe, and Breakwater Forts, will be found in Appendix X, pages 184 to 202.

63. A list of stores allowed for the repair and preservation of the engine, &c., at Breakwater Fort, Plymouth, will be found in Appendix XI, page 203.

Rope mantlets.

64. When rope mantlets have been fitted to shields, and have been found complete and in good working order, on the joint inspection of the officer commanding Royal Artillery and commanding Royal Engineer, they will be taken on charge by the officer commanding Royal Artillery, who will be responsible that they are kept in a safe condition and at all times ready and fit for use; he will therefore make requisitions in the usual manner upon the Royal Engineer department to carry out any repairs, and also for the necessary application of a solution of chloride of calcium. For instructions for care and preservation *see* Regulations for magazines, &c.

Mantlets for guns behind iron protection.

65. Rope mantlets, according to pattern required, will be provided and fitted for all guns actually mounted behind iron protection.

Rope mantlet doors for magazines.

66. The instructions contained in paragraph 64 will also apply in the case of the rope mantlet doors issued for use in powder magazines and cartridge stores to certain stations at home and abroad.

Double decked platforms, laying of by R.A.

67. Double decked platforms will be carried and laid by the Royal Artillery, on sites prepared, when necessary, by the Royal Engineers.

54
Arty.
6724

Demands for racers, &c.

68. Racers, pivots, traversing racks, and traversing arcs will be demanded and fixed by the Royal Engineers.

Demands for pivot plugs and pins.

69. Pivot plugs and pivot pins for 32-pr. S.B.B.L. guns for flank defences, will be demanded by officers commanding Royal Artillery districts, through the local ordnance officers.

Charge of above.

70. When the works are completed, the racers, pivots, traversing racks, and traversing arcs will be taken over by the officer commanding Royal Artillery, and entered on an inventory of fixtures in accordance with the Regulations for Engineer Services. Circular bearing-plates and holding-down screws, issued with R.M.L. high-angle carriages, will be similarly dealt with.

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71. When a work is taken over, as laid down in paragraph 70, all racers, roller paths, and pivots will be tested for true level in the presence of an officer of the Royal Artillery; a certificate as to the accuracy of the levelling being attached to the receipt given to the commanding Royal Engineer in accordance with Regulations for Engineer Services.

Approved patterns of above.

72. The approved patterns of traversing racks, traversing arcs, and pointers for guns are shown in Appendix V (pages 126 and 127), and of racers, pivot blocks, and pivot plugs, in Appendix VI (pages 128 to 133).

Renewal of markings on arcs traversing, elevating, &c.

73. Stores for refilling markings of arcs and index plates are allowed in the following proportions, when such refilling becomes necessary owing to wear, &c. :—

For 5 arcs, elevating.

Paint, magnetic oxide	⅛ lb.
Composition	⅛ „
Stone, pumice	1 „
Oil, linseed, raw	¼ pint.

For 5 segments of arcs, traversing.

Wax, engraver's	red	½ lb.
	black	½ „
Stone, pumice	....	2 lbs.

For 5 scale plates.

Wax, engraver's	red	about 1 oz.
	black	„ 2 „
Stone, pumice	....	„ 8 „

Issue of red flag to practice batteries.

74. In order to prevent accidents to vessels, &c., and to facilitate practice, a red flag will be issued to all batteries used for practice by either Regular, Militia, or Volunteer Artillery. Where two or more batteries are however grouped together, only one of which is usually practised from at a time, one flag should be sufficient for the group. Smaller musketry flags will also be issued, as required, to batteries, where approved bye-laws expressly stipulate their employment by sentries, posted on the flanks of batteries, to prevent persons passing along the front while practice is being carried on.

54
Portsmouth.
3503

Tackles for davits.

75. Where davits for service in connection with armaments are fixed in works, suitable tackles will be provided on demand.

57
Weymouth
7418

Position-Finders.

Position-finders, installation of.

76. Position-finders are installed in the more important coast defence works (armed with heavy guns), as approved.

Stores used in connection with.

77. A list of stores used in connection with position-finding will be found at pages 579 to 583.

As the detail of stores varies with the different descriptions of position-finders in use, officers in charge of such instruments will be careful that each is kept complete with its own special equipment of stores.

First issue of,

84 / W. / 4164

78. Position-finders and their equipment are, in the first instance, issued direct by the chief inspector of position-finding to works as specially authorised. When any stores in connection with position-finding require repair, they will, if such repairs cannot be carried out locally, be sent through the chief ordnance officer of the district to the principal ordnance officer, Woolwich. The stores will be struck off charge by voucher and redemanded. A report of the condition of the stores, and the reason for their despatch to Woolwich, will also be sent through the chief ordnance officer of the district to the principal ordnance officer. Local repairs should only be carried out by the artificers specially appointed for that purpose. (For tools *see* paragraph 182 and pages 156 to 166.)

Return of empty cases to Woolwich.

79. Cases containing position-finders which have been issued to stations at home will, when empty, be labelled "empty," and then returned to the principal ordnance officer, Woolwich.

Retention of empty cases abroad.

80. Cases containing position-finders which have been issued to stations abroad will, when empty, be retained at the station for use in the event of it being found necessary to return position-finders to Woolwich.

Return of empty cases to store.

81. Cases containing position-finding stores, and Le Clanché cells, will, when empty, be returned to the Army Ordnance Department in the same way as any other packing cases which it is desired to clear off charge.

Return of P.F.

82. When returning a position-finder, or portions of the instrument, to the Army Ordnance Department for transmission, to the principal ordnance officer, Woolwich, the cases will be labelled "Delicate instruments—with great care."

Schedules.

83. Army Forms G 839 (Schedule A) and G 840 (Schedule B), for schemes of position-finding, have been drawn up. Copies of these will be kept by General Officers commanding, Officers commanding Royal Artillery Districts, commanding Royal Engineers, Lieutenant-Colonels commanding Garrison Artillery, and Inspectors of Position Finding and Instructors in Range-Finding. These schedules should at all times be kept up to date.

Schedule A has reference to arcs of fire, arcs of view, bearings, &c.

Schedule B has reference to the state of completion of the scheme.

Blank forms can be obtained on demand in the usual way, and will be issued in outside and inside sheets as required.

4.—EQUIPMENT OF SIEGE ARTILLERY AND MOVABLE ARMAMENTS.

Details for siege artillery.

84. Details of the equipments for Siege Artillery will be found in the Siege Artillery Drill.

Distribution of siege companies.

Siege train companies are located at the following stations :—
Dover—Portsmouth—Plymouth.

Details of equipment.

85. Details of the equipment for these companies will be found at pages 326 to 333.

Accounting for equipment.

The guns and stores forming the equipment of these companies will be in the charge of, and will be accounted for by, the officer commanding the company.

Movable armaments.

86. Movable armaments, which are divided under two heads, viz. :—

(1) Movable—Guns and howitzers on travelling carriages, of which the weight exceeds 50 cwt. behind the team,

(2) Mobile—Guns on field and mountain carriages, of which the weight does not exceed 50 cwt. behind the team,

form part of the defensive armament of districts.

Details of equipment of movable armament will be found in Table 21, pages 299 to 325.

Range-finders allowed.

87. Large Watkin field range-finders are allowed to movable armaments in such proportions as are considered necessary, according to the grouping of the guns.

Harness, supply of.

88. Harness supplied under special authority for the service of movable armaments will be held in army ordnance charge, and only drawn from store when required. At some stations local arrangements are made to hire such harness as may be required.

5.—ARTICLES FOR DRILL AND INSTRUCTION OF ROYAL ARTILLERY.

Proportion.

89. The proportion of stores allowed to Royal Artillery for gun drill, are included in the details for staff and service companies (*see* pages 591 to 594).

Stores for laboratory instruction.

90. Stores for laboratory instruction are allowed to the Royal Artillery stations shown in Appendix III (page 124), and a detail of the stores comprising a set is given in pages 606 to 608.

Additional instructional stores for certain R.A. districts.

91. Stores are allowed in addition for gun and repository drills and general instruction, to Royal Artillery districts where instructors of gunnery are appointed (*see* list at pages 594 to 603).

Stores for stations with 2 companies Garrison Artillery, but no I.G.

92. At those stations where there are two or more companies of Garrison Artillery, including local companies of Royal Artillery, but no instructors in gunnery, the stores (including such as are available locally in Royal Artillery charge) shown in list at pages 604 to 606 are allowed for gun and repository drill and general instruction.*

57
Ceylon
1432
57
Bermuda
5128
57
St. Lucia
903

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* Two sets are allowed at Bermuda and Ceylon.

Stores for instruction of district establishments.

93. N.C.O.'s and men of the district establishments will participate in the use of all drill stores and laboratory stores allowed for the instruction of service companies.

Stores for instruction in service electric appliances.
57
Gen. No.
9635

94. Stores for instruction in service electrical instruments are allowed to certain stations where position-finding has been installed (*see* list on page 590).

Stores to be maintained.

95. With the exception of the unserviceable fuzes supplied annually to companies for instruction in boring, the proportion of stores allowed to garrison artillery will be maintained.

Fuzes for instructional purposes at stations abroad.

96. At stations abroad, if there are no unserviceable fuzes for instructional purposes in possession of the Royal Artillery or Army Ordnance Department, service fuzes which have been longest in Royal Artillery charge, will be used, and they will be replaced from the ordnance stores.

Tubes for manning of works.
57
Gen. No.
9898
V
2 C. Ports
213

97. Tubes for expenditure at general mannings of works will be taken from those allowed at page 591. The expenditure of a proportion of such tubes by Militia and Volunteer Artillery when manning works will be left to the discretion of the Officer Commanding Royal Artillery.

Repriming electric drill tubes.

98. Vent-sealing electric drill tubes will be reprimed and rebridged after each time of firing; the electric tube No. 11, will also be reprimed after each time of firing, and rebridged as required. This operation will be performed under the superintendence of the inspecting ordnance officer at the stations where these officers are appointed. At stations where there is no inspector, and there is no other officer of the Royal Artillery on the spot qualified to perform the operation, the tubes must be sent to Woolwich to be reprimed. Instructions for performing the operation will be found in the Regulations for Magazines, &c.

6.—PRACTICE AMMUNITION.

Garrison Artillery.

Money value.

99. With a view of improving the instruction of the Royal Artillery, each station will be allotted the money value of the ammunition allowed for practice (including ammunition for aiming tubes) and the expenditure of the same will rest with the officer commanding Royal Artillery, under the orders of the general officer commanding the district. Care should be taken that the money is expended with due regard to

1. The elementary instruction of the companies.
2. The requirements of station and half-yearly practice, which must be strictly adhered to.

100. The full allowance must be expended during each financial year, and no portion of it may be carried over from one year to the next, except at the schools of instruction, without War Office authority for so doing.

Whole sum to be expended in financial year.

101. In order that no ammunition may remain unexpended, care should be taken, when preparing the programme for the year, to include ammunition for such guns only as are certain to be available for the whole of the practice season.

Care to be taken to provide ammunition only for guns which will be available all year.

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102. At the schools of instruction, should any ammunition remain unexpended at the end of the year, it may, at the discretion of the officer commanding Royal Artillery in the district, be carried forward for use in the following year, in addition to the annual allowance.

Ammunition for schools of instruction.

103. After providing for elementary instruction, the scheme of practice for each year should be so arranged that it is carried on under strictly service conditions, and in accordance with a definite tactical scheme suited to the locality (*vide* paragraph 120).

Annual scheme.

Station Practice.

104. At station practice all R.M.L. guns, 7-inch to 12·5-inch, and all B.L. guns, 6-inch and over on sliding carriages and slides, which are so mounted as to be capable of being fired with safety, will be fired three times consecutively every second year.

When practice is to take place.

105. In the case of B.L. guns, 6-inch to 10-inch, on disappearing carriages, and R.M.L. guns on high-angle carriages, two full charges will be fired consecutively every half year. The cleaning of the cylinders, when necessary, being carried out immediately before one of these occasions.

Practice from guns on disappearing carriages.

57
Gen. No.
8941

106. If, when the practice referred to in paragraphs 104 and 105 is due, any entire group of guns has been, or is about to be, used for regimental practice, such group will be exempt from station practice.

When exempt from station practice.

107. The 13·5-inch B.L. gun at Penlee will be fired twice, and the 17·72-inch R.M.L. guns at Gibraltar and Malta will be fired four times, consecutively every half year.

Practice from 13·5-inch B.L. and 17·72-inch guns.

108. In the case of guns which are prevented, on account of danger to shipping or other property, from firing ordinary projectiles, paper shot or blank ammunition will be used.

Paper shot or blank ammunition to be used in special cases.

109. Guns of lighter natures than those referred to in paragraph 104, on iron traversing or Moncrieff mountings, Q.F. guns 6-inch 4·7-inch and 12-pr., and all R.M.L. howitzers on beds, which are prevented on account of danger to shipping, &c., from being fired at regimental practice, will be fired three times consecutively every second year with paper shot and full charges. In all cases where

Paper shot to be used for lighter gun in special cases.

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12
8448

such shot are authorized care must be taken that they are only fired from guns having a clear range of 400 yards.*

Charges to be used for blank ammunition. **110.** For blank ammunition, full charges will be used for all B.L. guns† and for R.M.L. guns, 12·5-inch and over, and blank charges in silk-cloth cartridges for all other guns.

Periods for firing. **111.** The three rounds will invariably be fired on the same day from the whole of the guns in each separate work, or in the case of large works from as many complete groups as possible.

Station practice to be carried on annually by half the works in district. **112.** Except with the guns mentioned in paragraphs 105 and 107, station practice will be carried on annually from half the works in a district; the whole of the guns, or complete groups of guns, in each of the works chosen being manned simultaneously, and all arrangements made which would be necessary in action, the object being not only instruction, but also to test thoroughly the working condition of the mountings and gear as well as all the fitments and accessories of the forts and batteries, the supply of ammunition, and the means for fighting the guns generally.

Machine-gun practice. 57 / Gen. No. / 7835 **113.** Machine gun practice will be carried out under local arrangements, by either the Royal Artillery or infantry, according to the scheme of mobilization; the ammunition used will be taken from the oldest on charge. For the annual proportions of ammunition *see* paragraph 176, Part I.

Mode of using targets. **114.** Targets, either moving or anchored, will be used for shotted practice. On all occasions a special idea for the practice should be prepared, and the targets should be placed in the positions ships would occupy, or follow the course ships would take under the conditions laid down for attack.

Result of practice to be reported. 104 / Arty. / 927 **115.** Reports on the result of station practice will be prepared annually, in duplicate, one copy being retained at the station, the other forwarded through the general officer commanding, to the Commandant, School of Gunnery, directly after the conclusion of a series of the practice.

Regimental Practice.

Allowance of ammunition. **116.** The sum allowed annually for ammunition for regimental practice is based on the following:—

(*a*) For each station where only one company is quartered—

57 / Devonport / 6176 4 rounds for each distinct nature of R.M.L. gun, 7-inch to 12·5-inch, and B.L. gun, 6-inch to 12-inch, mounted in the command, with a minimum total of 16 rounds where only a small diversity of natures is available.‡

12 rounds for each nature of "lighter ordnance" mounted in the command (*see* paragraph 117), except those that have been used for company practice, with a minimum total of 16 rounds.

(*b*) For each lieutenant-colonel's command where two or more companies are stationed together—

57 / Devonport / 6176 6 rounds for each distinct nature of R.M.L. gun, 7-inch to 12·5-inch, and B.L. gun, 6-inch to 12-inch, mounted in the

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* Mark I "Paper Shot," filled with waste shot Nos. 1 to 5, will only be fired where there is a clear range of 1000 yards.

† *See* paragraph 138.

‡ For B.L. guns on disappearing carriages, the ammunition allowance for station practice will be utilised as far as possible.

command, with a minimum total of 24 rounds where only a small diversity of natures is available.*

12 rounds for each nature of "lighter ordnance," mounted in the command (*see* paragraph 117), except those that have been used for company practice, with a minimum of 24 rounds.

117. 32-pr. S.B. B.L. guns are to be considered as forming one class of lighter ordnance. No practice will be carried out from any other nature of S.B. guns and howitzers. Practice from S.B. ordnance.

118. The Royal Malta Artillery and local companies of Royal Artillery at Hong Kong will be allowed the same proportion of ammunition as for a lieutenant-colonel's command of two or more companies. At Ceylon, Mauritius, Jamaica, and St. Lucia the company of Royal Artillery and the local company (or companies) of Royal Artillery at each station will be combined, and be entitled to the same allowance as for a lieutenant-colonel's command of two or more companies. Allowance for local artillery.

119. Companies stationed at Shoeburyness will be allowed annually, ammunition to the value of 226*l.* Allowance for Shoeburyness. 38407 / Equip. / 1910

120. Regimental practice will be carried out from the guns actually mounted as the armament of the district under strictly service conditions, and in combination with the station practice, so that, if possible, one or more complete groups of works may be in action at the same time according to a tactical scheme framed to suit local circumstances, and any phase of an action it may be desired to illustrate. At least one complete group of works should be manned so as to afford a thorough test of the working of the means of communication, transmission of orders, and supply of ammunition in existence, and thus bring to notice any defects that may require attention. Guns which are to be used for regimental practice.

121. For each Q.F. gun actually in possession from which projectiles can be fired, the annual allowance of ammunition will be— Ammunition for quick-firing gun practice. 57 / Gen. No. / 5918

6-inch, 12 rounds,
4·7-inch, 18 rounds,
12-pr., 20 rounds,
6-pr., 33 rounds (3 boxes),
3-pr., 32 rounds (2 boxes).

This Q.F. ammunition may when necessary be commuted for ammunition for the aiming rifles which are supplied with Q.F. guns (*see* page 593), but it must not be commuted for any other nature of ammunition. For practice from Q.F. guns which cannot fire projectiles, *see* paragraph 109. Q.F. ammunition not to be commuted 57 / Gen. No. / 8531

122. Practice with these Q.F. guns will, as far as possible, be carried out at towed targets. Q.F. practice to be at towed targets if possible. 75 / 12 / 9363

123. In the case of 6-inch to 12-pr. Q.F. guns the shells should in every case be fired plugged, the bursting charge being first drowned with water. 57 / Gen. No. / 7393

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* For B.L. guns on disappearing carriages, the ammunition allowance for station practice will be utilised as far as possible.

Result of practice to be reported.
104
Arty.
927

124. Reports on the result of regimental practice will be prepared annually, in duplicate, on completion of the whole of the regimental practice in a section, one copy being retained at the station, the other forwarded through the general officer commanding to the Commandant, School of Gunnery.

Siege Practice.

Allowance of ammunition.
57
Gen. No.
9881

125. Siege practice will be carried out under special directions, which will be issued annually by the War Office. Ammunition to the value of 395*l.* per company will be allowed, and the distribution to the different natures of ordnance will be arranged according to the scheme of practice for the season.

Special report of result of practice.

126. A special report will be made on conclusion of the practice, and it will be embodied in the annual report of the School of Gunnery on Garrison Artillery practice.

Company Practice.

Allowance of ammunition
57
Gen. No.
8762

127. Each company of Royal Artillery—excepting those which carry out their practice at the camps of instruction, Isle of Wight and Devonport—is allowed annually, ammunition for company practice to the value of 213*l.*; this ammunition may be of such natures—including a proportion of shrapnel, according to local circumstances—as may be decided by the officer commanding Royal Artillery in the district.

Allowance for local companies.

128. The companies of Royal Malta Artillery and local companies of Royal Artillery will be considered equivalent to companies of Royal Artillery for purposes of company practice.

Allowance for schools of instruction.
57
Gen. No.
8762

129. Ammunition will be allowed annually to the camps formed at the schools of instruction, Isle of Wight and Devonport, for carrying out practice, &c., at these places. The value of the ammunition for the camp at Isle of Wight will be 2,929*l.*, and at Devonport 2,074*l.*

Ammunition for West India Regiments.
57
Jamaica
4387

130. For the West India Regiment, 100 rounds 7-pr. R.M.L. (60 common and 40 shrapnel) per battalion, are allowed for training gunners.

Allowance to infantry required to act as artillery.
57
Gen. No.
7798

131. For practice of infantry, required under the Defence scheme to act as artillery, ammunition to the value herein laid down for the stations named, is allowed annually :—

	£		£
Bermuda	240	Malta	800
Cape	80	Singapore....	160
Ceylon	160	St. Lucia	80
Gibraltar	480	Jamaica	16
Halifax	40	Sierra Leone	16

A deduction of 40*l.* (except in the case of Jamaica and Sierra Leone) will be made from these allowances, for every 50 men less than the number required by the Defence scheme, who may not have been trained during the year.

Ammunition required under this head will be added to the annual estimates of the Royal Artillery.

Ammunition for district establishment.

132. The district establishment will be allowed annually, for each squad of 15 non-commissioned officers and men available, a sum of 18*l*., which may be expended in such natures of ammunition as may be decided by the officer commanding Royal Artillery in the district.

Ammunition for company practice not allowed for Cos. carrying out siege practice.

133. Ammunition for company practice will not be allowed to companies that carry on siege practice.

Company practice reports to be rendered.

134. Reports on the result of company practice will be rendered annually to the Commandant, School of Gunnery, as each company completes its practice.

104
Artillery
927

Position-finding Practice.

Allowance of ammunition.

135. For each station, ammunition will be allowed annually to the value of 5*l*. per position-finding instrument installed, for the training of non-commissioned officers and men in the use of the instrument. For schools of instruction, ammunition to the value of 40*l*. will be allowed for each course of 15 officers, non-commissioned officers, and men under instruction, and will be fired from the particular guns selected for the practice.

Practice for Instruction of Militia and Volunteer Artillery in Fire Discipline and Coast Defence.

Ammunition for instruction of classes of M. and V. Artillery in fire discipline and coast defence.

136. Ammunition to the value of £33, in the case of the South Eastern, Western, Thames, and Cork Districts, and £85 (to include cost of blank ammunition) in the case of Southern and Scottish Districts, will be allowed annually for the special classes held in those districts for the instruction of the Militia and Volunteer Artillery officers and non-commissioned officers in fire discipline and coast defence.

7615
207
a
A. F. Golden Hill.
19
7615
261

General Instructions.

Number of rounds to be limited with B.L. and Q.F. guns.

137. No B.L. or Q.F. gun, of the natures referred to in this paragraph, should fire in one year more than the number of rounds shown against each respectively :—

B.L.	13·5-inch	10
„	12 „	15
„	10 „	16
„	9·2 „	20
„	8 „	27
„	6 „	40
Q.F.	6 „	40
„	4·7 „	80

56
Canada
846
57
Gib.
6548

Restrictions on firing blank from B.L. ordnance.
54
Artillery
3762
...
5655

138. Firing of blank charges from B.L. guns and howitzers above 15-pr. and 5-inch respectively is never to be carried out unless a shotted round has been fired within one month previously.

Blank firing for B.L. guns is to be restricted to 6-inch and under.

Loaded B.L. gun that cannot be fired at end of day's practice.

139. Should circumstances not permit of a B.L. gun loaded with a filled and fused shell being fired at the end of a day's practice, on account of obstruction on the range or other cause, the cartridge will be withdrawn and the shell left in the gun until a favourable opportunity offers of firing the round. On no account should an attempt be made to drive the shell out of the gun. Care should be taken that the breech is properly secured before the gun is left, and such precautions taken as may be deemed necessary under local circumstances, until the round can be fired.

Removal of bulkheads.

140. When it is necessary for the purpose of practice or exercise to remove the bulkheads separating the emplacements of heavy guns, the service will be carried out by the Royal Artillery, the Royal Engineers furnishing such information as may be requisite to expedite the removal. The bulkheads will also be replaced by the Royal Artillery.

Responsibility for removal.

141. The responsibility for any damage done during the removal and replacing of the bulkheads, due to want of care, will fall on the Royal Artillery.

Plugged common Shells: how to be filled, &c.

142. Plugged common shells required for immediate practice will be filled with water, and the metal plugs screwed into the fuze holes. R.B.L. shells of field service gauge will also have the papier-maché wads placed in the sockets.

To be emptied before being placed in store.

143. Shells filled with water which have not been expended in practice, or which have been recovered after practice, will be emptied and dried before being placed in store.

Common shell with blowing charges to represent shrapnel.
38407
Equip.
1765
57
Gib.
6888

144. In cases where shrapnel shell form part of the equipment of guns, and fuzed shrapnel cannot be fired with safety, a proportion of common shell will be loaded with blowing charges and fired to represent shrapnel. These will be filled by the Royal Artillery. The stores required for the operation are shown in Table 23, pages 334 and 335.

Shells filled with coal dust or sand.

145. All shells fired with blowing charges will be filled with dry coal dust or sand, space only being left for the insertion of the fuze and of the bag containing the blowing charge.

Opened packages of ammunition to be used up
57
Mauritius
3739

146. When sealed cylinders containing tubes, fuzes, primers, &c., or packages of Q.F. ammunition, have been opened for use, and their contents have not been used up, they will be retained by the Royal Artillery as surplus to equipment, and used up at earliest opportunities.

Oldest ammunition to be used

147. For practice generally the ammunition of oldest manufacture on charge in the district, and that contained in packages which have been opened for inspection, will always be first expended, and will be replaced by the next supply from store.

first for practice.

51/Gen. No. 6590

57/Malta 9919

To ensure the above being carried out, the ammunition of oldest date and pattern in the district and opened packages will, as far as convenient, be transferred to the forts from which the practice will take place.

Projectiles to be used with B.L., Q.F., and R.M.L. guns

148. For B.L. guns Palliser shot* and cast-iron common shell will be used for practice, except in the case of the 9·2-inch B.L. wire guns, for which steel shells and cordite cartridges will be used; and B.L. guns on disappearing carriages, which have been completed with cordite charges, and 6-inch Q.F. guns, with which cordite cartridges and projectiles fitted with gascheck driving bands will be used for practice.

With other B.L. and Q.F. guns, whether or not completed with cordite cartridges, practice will be carried out with gunpowder cartridges, and projectiles *not* fitted with the gascheck driving band, until the existing stock of those cartridges and projectiles shall have been used up.

For R.M.L. guns, except those mounted on high angle carriages† iron projectiles will be generally used for practice purposes. Steel projectiles will not be used without special authority having first been obtained.

Plugged common projectiles to be utilised.

.../9919

149. Shells required to be fired plugged should be taken from any empty common shells that may be on charge, and from shells set apart for practice only, including shrapnel condemned on account of damp bursting charge or fixed primer. Shells which may not be fired with full charges should also be utilised for this purpose. When the foregoing are not available, filled common shells of oldest pattern and date belonging to the equipment in the district, will be used.

150. Filled shells need not be emptied; the bursting charge should be drowned by filling the shell with water. Shrapnel shell from which the primer cannot be extracted will be fired over deep water only.

Shells for practice to be filled by A.O.D.

57/Gib. 6888

151. When it is necessary to fill shells for practice, the service will be carried out by the Army Ordnance Department.

Blending of small lots of cartridges.

57/Gib. 6888

152. In exceptional cases, where there are cartridges belonging to several lots of pebble or grain powder, and a very small number of cartridges in each lot, these cartridges may be blended for gun practice, irrespective of date of issue. For this purpose the old cartridge bags should be used if possible, but braid and new cartridge bags may be demanded if required. Moulded powders will not be blended. The stores allowed for blending purposes are shown in Table 23, pages 334 and 335.

75/12/7810

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* Owing to the liability (which increases with the larger natures) of Palliser shot to develop cracks, which may result in the projectile breaking up when fired, all Palliser should be closely examined before loading, and those with cracks rejected. The defect is shown by cracks in the paint.

† *See* footnote ** page 234.

Spare tubes and primers.

153. No spare fuzes will be authorised for practice, but spare friction tubes and vent piece primers will be allowed in the proportion of 10 per cent.

Drying vents of B.L. and axial vented R.M.L. guns before practice.

61030 / 2518

154. Before commencing practice with B.L. and axial-vented R.M.L. guns, a tube will be fired to dry the vent, with a view of obviating the possibility of a miss-fire. In the case of guns on disappearing carriages and loaded under cover, a filled sandbag will be suspended in front of the muzzle to stop the ball of the tube, and prevent its doing damage to the emplacement.

Tubes with ball not to be fired in radial vented guns when gun is empty.

57 / Devonport / 7187

155. In radial vented guns, tubes with ball will not be fired when the gun is empty, as in such case the bottom of the chamber opposite the vent is liable to damage from the ball.

Tin cups disposed after practice.

156. Tin cups need not be returned to store at the conclusion of gun practice, but should be shown as expended.

Lacquering of bores.

157. Care will be taken that the annual and biennial lacquering of bores, prescribed in regulations for magazines, &c., is carried out immediately after the conclusion of the annual and biennial practice.

Examination of mountings after practice.

104 / Arty. / 927

158. At the conclusion of practice, gun mountings will be examined by the inspector of ordnance machinery or armament artificer, and any defects or damages beyond local remedy, will be immediately reported to the War Office.

Making up Ammunition.

Making up of cartridges.

57 / Ceylon / 1411

159. Cartridges for the equipment of all ordnance, will be made up and packed at Woolwich in the Royal Laboratory, except for stations provided with dry air rooms, where they will be made up by competent laboratory men under an inspecting ordnance officer, and with the assistance of a working party of the Royal Artillery when necessary.

Transfer of ammunition from laboratories where made up.

160. The Royal Artillery will, when practicable, transfer the ammunition to forts and batteries in the neighbourhood of the laboratory where it may have been made up and packed. If this course be not practicable, it will be forwarded by the Army Ordnance Department.

Shells; by whom filled.

57 / Gib. / 6888

161. All shell for equipment will, as a rule, be issued from Woolwich filled. If issued empty, they will be filled at the station by the Army Ordnance Department, the Royal Artillery furnishing working parties when necessary; such parties when filling shell which form, or are to form, part of the equipment of the armament at the station, will not be entitled to extra duty pay.

162. Common shells for practice with blowing charges, will be supplied empty, and have the blowing charge inserted by the Royal Artillery.

Paper shot.

163. The filling of "shot, paper" will be performed by the Royal Artillery, the waste shot and sawdust with which they are to be weighted up to proper weight being demanded from the Army Ordnance Department as required; the operation can be carried out in any available covered building in the work from which they are to be fired. In fine weather it is not necessary to use a covered building for the operation.

38407
Equip.
1800

57
D'port.
7421

As the weights of empty paper shot are subject to variation with the time they are kept, the quantity of small shot required for filling will also vary, and to ensure that a sufficient supply of the latter is available, the total weight of the filled paper shot will be taken in estimating the quantity of small shot required.

In filling the total weight of the filled shot must not be exceeded, any surplus small shot from one filling being retained for the next.

The instructions for filling will be found in Regulations for Magazine, &c.

38407
Equip.
1910

Blank Ammunition.

Blank ammunition for movable armament.

164. Blank ammunition is allowed for all guns and howitzers of the movable armament for expenditure at reviews and field days (*vide* paragraph 180, Part I.).

Blank ammunition for Q.F. guns.

38407
Equip.
1828

57
Ports.
4619

165. An annual allowance of thirty rounds per gun of blank ammunition is authorised for Q.F. guns 12-pr. and under. The cartridges for these rounds will be demanded filled, as required, and after firing, the empty cases will be returned to the Army Ordnance Department for reforming, tools for this purpose being allowed in accordance with regulations for Army Ordnance Services.

Blank ammunition for salutes, signals, time guns, &c.

57
Gen. No.
7578

166. Blank ammunition will be supplied at the public expense:—

i. For all saluting and flag stations authorised by the Queen's Regulations.

ii. For mail signals, ships in distress, and alarms for military purposes, at the discretion of the general or other officer commanding. The sum of 5*l.* (five pounds) annually per district or station for these services is not to be exceeded; in computing the value, only the price of the tubes and empty cartridge bags will be considered.

iii. For time guns authorised to be fired at military stations.

N.B.—For time guns in charge of Colonial Governments, or in possession of a civil corporation, ammunition will be supplied on repayment.

7.—TARGETS FOR GUN PRACTICE AND INSTRUCTION.

Targets for instructional purposes.

57
Gen. No.
7056

57
Tower
4857

167. Targets for instructional purposes will be allowed to Garrison Artillery, for instruction in laying guns, at the stations named below, and in the following proportions:—

Belfast	1	Scottish	1
Thames	3	North Eastern	1
Cork	4	North Western	1
Eastern	2	Shoeburyness	2
Tower of London	1	South Eastern	3
Guernsey	2	Southern	12
Jersey	1	Western	8

Bermuda	2	Halifax, Nova Scotia	3
Cape	2	Malta	8
Ceylon	2	Mauritius	1
China	2	St. Helena	1
Straits Settlements	2	Jamaica	2
Egypt	1	St. Lucia	2
Gibraltar	7		

Materials for instructional targets.

168. The materials required for instructional targets are as follows :—

Chain, $\frac{1}{16}$-in. × 3-ft. 6-in.		1
Hooks, S, iron, $1\frac{1}{2}$-in.		1
Iron rod, round, $\frac{5}{16}$-in. diameter × 52-in. long		1
Lead, sheet, $1\frac{1}{2}$-in. thick, equilateral triangle with 6-in. slides		1
Nails, iron, rose-head, stamped, No. 147		5 oz.
Paint	light green	12 ,,
	light red	12 ,,
	white	1 ,,
Rings, iron, $\frac{1}{2}$-in. × $1\frac{1}{2}$-in. diameter		1
Screws, iron, flathead, $\frac{5}{8}$-in. gauge, No. 9		4
Timber, deal	battens, 4-ft. × $4\frac{1}{2}$-in. × $\frac{1}{2}$-in.	4
	boards, 4-ft. × 9-in. × $\frac{1}{2}$-in.	5
	boards, 4-ft. × 3-in. × $\frac{1}{2}$-in.	1

Targets for aiming rifles and tubes.

57
Gen. No.
7381
7615
257
57
Malta
924

169. To facilitate instruction in rapid laying of Q.F. guns (with aiming rifles and tubes), the "Target, Artillery running, 'Elmslie' pattern" will in addition be allowed to the undermentioned stations in the proportion stated :—

Eastern	1	Scottish (School of Instruction)	1
South Eastern	1	Cape	1
Southern	1	Gibraltar	1
Thames	1	Malta	3
Western	2		

Authorised patterns.

57
Gen. No.
7056
57
D'port.
7461
104
Arty.
953
84
O.
601

170. The gun practice of Garrison Artillery over sea ranges will be carried out at targets of the authorised patterns, viz. :—

i. Record target (Richardson or Rider) for competitive practice; and for station and regimental practice, to such extent as local conditions admit of.

ii. Hong Kong targets for service practice ; towed, either singly, or in pairs* one behind the other ; when a pair of targets is used, they should be connected by $3\frac{1}{2}$-inch tarred manilla rope.

iii. Targets, Artillery, floating, light (barrel), for use as a moored target, at elementary practice. This target may also be used as a drifting target.†

iv. Target, Artillery, towing, "Osborn" pattern.

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* These targets are issued in pairs.

† Paraffin casks, if considered more suitable than the barrel, may be used for floating or drifting targets; 50 lb. anchors may also be demanded in special cases at the discretion of the officer commanding Royal Artillery.

Record targets.

171. The Richardson pattern of Record target is suitable at stations where ample facilities exist for docking and storing at a wharf, but the Rider pattern is more suitable for beaching.

Osborn pattern targets.

172. Osborn pattern targets will be made a special issue for use with Q.F. guns defending a harbour, &c.

Towing rope.

172A. Towing rope is to be maintained at the rate of :—

1–3½-in. tarred manilla rope	400 yds. long for each Record target. 400 „ „ Hong Kong target. 60 „ as a connecting rope for each pair of Hong Kong targets.

57
Devonport
7461

These ropes will be demanded as required in order to maintain the above proportions ; they will not be issued as part of the target.

Cables for floating targets.

173. Cables of 3-inch tarred rope for floating targets are issued in lengths of 18½ fathoms. If, however, a target is required to be placed in deep water where the cable is not of sufficient length to anchor it, an additional length of cable should be demanded from the local Army Ordnance Department.

Targets to be on R.A. charge.

174. Targets will be obtained from the Army Ordnance Department, and be maintained on Artillery charge in the proportions herein laid down.

57 Gen. No. 7056 84 O. 601	Stations.	Targets—Proportions.			
		Record.	Hong Kong.	Floating.	Osborn Pattern.*
			pairs.		
	Eastern District—				
	Harwich	1	1	6	—
57 Dover 3580	*South Eastern District—*				
	Dover and Newhaven	1	2	10	—
	Southern District—				
	Portsmouth and Gosport	4	2	14	1
	Isle of Wight	4	2	8	—
	Portland	1	1	3	1
	Western District—				
	Devonport	3	3	6	1
	Falmouth	—	1	4	—
	Pembroke	1	2	5	—
	Thames District—				
	Sheerness	2	1	3	—
	Medway	—	—	—	1
7615 257	*Scottish District—*				
	Leith	1	2‡	12	—
57 Liverpool 973	*North Western District*	—	2	—	—
	Ireland—				
57 Londonderry 348	Belfast	1	1	10	1
	Cork	2	1	16	—
	Guernsey	—	1	4	—
57 3 8982	Jersey	—	1	4	—
	Shoeburyness	6†	1	4	—
	Gibraltar	3	2	14	1
57 Malta 1529	Malta	3	4	16	1
	Jamaica	1	1	4	—
	St. Lucia	1	1	4	—
57 Gibraltar 7069	Halifax	1	1	4	—
	Bermuda	1	1	6	—
	Cape	1	1	6	—
	Sierra Leone	1	1	6	—
57 S S. 3463	Mauritius	1	1	6	—
	Ceylon	2	1	8	—
	Hong Kong	2	2	12	—
	Singapore	1	1	6	1
	St. Helena	—	1	4	—

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* Some time must elapse before arrangements can be made for the issue and moving of these targets. † Including those for National Artillery Association.

‡ Including one pair for School of Instruction.

175. The proportions laid down in the foregoing table are intended to provide for the requirements of Militia units which practise at any of the stations named, as well as for the requirements of the Royal Artillery.

Units whose requirements are provided for.

57
Gen. No.
7056

176. The officer commanding Royal Artillery in a district or station will allot the targets for custody and accounting as may from time to time seem to him most suitable; he will be responsible that the total number is not exceeded.

Allotment of.

177. In Garrison Artillery working pay will be allowed both for the manufacture of, and current repairs to targets, subject to the instructions contained in Part I, paragraphs 321 and 322.

Repair of, pay.

178. At the conclusion of the annual practice all targets will be returned to store, and the Army Ordnance Department will arrange for their repair and custody until again required. At certain stations, however, where the targets cannot be conveniently returned to store, or where a proportion is required by the Royal Artillery throughout the year, they may remain in Royal Artillery charge.

Targets to be returned.

179. Floating targets and rafts, when shot away at practice, may be written off charge by a certificate of the commanding officer to that effect on the usual expense voucher, Army Form P 1925; but when anchors and cables are lost, the course laid down in the Queen's Regulations as regards expense stores will be followed.

Expenditure of targets, rafts, anchors, and cables.

180. Floating targets are not, if it can possibly be avoided, to be left out at night either before, during, or after practice.

Floating targets not left out at night.

38407
Equip.
1819

8.—TOOLS.

181. Tools for scraping and painting ordnance will be found at pages 54 to 56.

For scraping painting and ordnance.

38407
Equip.
1913

182. The following list shows the workshops and tools which are allowed to the Royal Artillery for the purpose of carrying out repairs to armaments.

(For details of "chests, tool, filled" *see* Appendix VII, pages 134 to 166).

Distribution of workshops, tools, &c.

38407
Equip.
1913

57
Liverpool
938

Districts and Works.	Designation number of workshops.*	Tools for repair of garrison carriages and slides (3 D).‡	Tools for repair of wood garrison carriages and slides (3 J).	Tools for repair of Position-finding Instruments. Chest No. 14A.	Remarks.
NORTH WESTERN.					
Seaforth	4	1	1	—	
Perch Rock	—	1	—	—	Also field forge.
NORTH EASTERN.					
Tynemouth	—	1	1	—	
Paull's Point Battery ...					A 36-lb. standing vice allowed to each work; other Tools supplied from Tynemouth as required.
Heugh Lighthouse Battery					
Cemetery Battery					
South Gare Battery ...					
SCOTTISH.					
Kinghornness	6	1	—	—	
Inchkeith	6	1	—	—	
Buddon	6	—	—	—	
EASTERN.					
Landguard Fort	4	1	1	—	
Shotley Battery	—	1		—	
Beacon Hill	6	—	—	—	
SOUTH EASTERN.					
Pier Turret	—	1	—	—	
Archcliffe Fort	5	1	1	—	
Castle (Spur Battery)	5			—	
Western Heights	—	—	—	—	Dependent upon ordnance workshops.
Newhaven Fort	5	1	1	—	
THAMES.					
Gravesend, S.D.					
Tilbury Fort...	6	1	1	—	Dependent upon Tilbury Fort.
New Tavern Fort	—	—	—	—	
Coalhouse Fort	4	1	—	—	
Cliff Fort	5	1	—	—	
Shornmead	4				
Sheerness, S.D.					
Sheerness Lines	—	1	—	—	
Garrison Point Fort	—	1	—	—	
Grain Fort	4	1	1	—	
Slough Fort	4	1	—	—	
Barton's Point	6	1	—	—	
Sub-District...	—	—	—	1	
Hoo Fort	—	—	—	—	Dependent upon Darnet Fort.
Darnet Fort	6	1	—	—	

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* No. 1. Central shop (in Army Ordnance Department Charge).
2. Smith's, carpenter's, and fitter's shop, with a permanent forge and lathe.
3. Smith's, carpenter's, and fitter's shop, with a permanent forge.
4. Smith's and fitter's shop, with a permanent forge and lathe.
5. Smith's shop, with a permanent forge.
6. Smith's shop, with a field forge.

‡ The G.S. smith's chest (11 E) is supplied to every work, in addition; but without the chest, stocks and dies, Whitworth thread, $1\frac{1}{8}$ in. to $\frac{1}{4}$ in.

Districts and Works.	Designation number of workshops.*	Tools for repair of garrison carriages and slides (3 D).‡	Tools for repair of wood garrison carriages and slides (3 J).	Tools for repair of Position-finding Instruments. Chest, No. 14 A.	Remarks.
SOUTHERN.					
Portsmouth and Gosport, S.D.					
Fort Fareham	5	1	1	—	
,, Brockhurst	—				
,, Grange	—				
,, Monckton	—				
,, Gilkicker	4	—	—	—	
,, Widley	5	1	1	—	
Hilsea Lines	5				
Point Battery	3	1	1	—	
Southsea Castle	5				
Fort Cumberland	5	—	—	—	
Horse Sand Fort	*a*	1	—	—	*a*. Specially equipped as regards workshops.
No Man's Land Fort		1	—	—	
Spitbank Fort	6	—	—	—	Dependent upon Horse Sand, No Man's Land and Gun Wharf.
St. Helen's Fort	—	—	—	—	
Sub-District	—	—	—	3	
Isle of Wight S.D.					
Puckpool	4	1	1	—	
Sandown	4				
Yaverland	—				
Steyne Wood Battery	6	1	—	—	
Hatherwood	—	2	—	—	
Cliff End	4				
Warden Point Battery	6	—	—	—	
Hurst Castle	4	1	—	—	
Sub-District	—	—	—	1	
Portland S.D.					
Verne Citadel	4	1	1	—	Special issues of tool chests for use with hydraulic gear, authorised, *vide* p. 201.
East Weir Batteries	4			—	
Nothe Fort	—	1	—	—	
Breakwater Fort	4	—	—	—	
WESTERN.					
Penlee	2	—	—	—	A vice, 80-lb., with cast iron bench, is also allowed.
Bovisand	5	1	1	—	
Breakwater Fort	6	—	—	—	
Fort Agaton...	6	—	—	—	
Crown Hill Fort	6	—	—	—	
Efford...	6	—	—	—	
Tregantle	6	1	1	—	Tregantle, Scraesdon, and movable armament.
Whitsand Bay	4	—	—	—	
Picklecombe Fort	6	—	—	—	
Drakes Island	6	—	—	—	
Maker Heights	4	1	1	—	
Steep Holme	6	1	—	—	
Flat Holme	6				
Lavernock	5	—	—	—	
South Hook	4	1	—	—	
Popton	4	1	—	—	Also Chapel Bay.
Stack Rock	4	—	—	—	
Hubberstone	6	—	—	—	
Breandown Battery	6	1	—	—	
Pendennis Castle	4	1	1	—	
St. Anthony's Head	5	—	—	—	
District	—	—	—	1	
Scilly	4	—	—	—	

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Equip.
1913

Weymouth
5
164
...
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* *See* foot note * on page 32.

‡ *See* foot note ‡ on page 32.

	Districts and Works.	Designation number of workshops.*	Tools for repair of garrison carriages and slides (3 D).‡	Tools for repair of wood garrison carriages and slides (3 J).	Tools for repair of Position-finding Instruments. Chest, No. 14 A.	Remarks.
	JERSEY.					
	Fort Regent	5	1	1	—	
	ALDERNEY.					
38407 Equip. 1913	Fort Albert	6	1	1	—	Dependent upon ordnance workshop.
	Guernsey	—	—	—	—	
	IRELAND.					
	Cork.					
	Carlisle Fort	6	1	1	—	
	Westmoreland Fort	4	1	1	—	
	Camden Fort	4	1	1	—	
	Berehaven	2	—	—	—	
	District generally	—	—	—	1	
	Belfast.					
57 Belfast 1212	Inch Fort	6	—	—	—	
	Neds Point	2	1	1	—	
57 L'derry 418	Dunree	5	1	—	—	
	Dunree Head		1	—	—	
	Lenan Head Fort	—	1	—	—	
	GIBRALTAR.					
	Town Sub-Section	6	—	—	—	
	Middlegate	4	—	—	—	
	Upper North Section	6	—	—	—	
Gib. 12 46 14	Middle Hill Battery	6	—	—	—	
	Upper South Sub-Section	4 6	— —	— —	— —	
	Europa	6	—	—	—	
	Napier of Magdala	6	—	—	—	
	Station generally	—	2	2	2	
	MALTA.					
	Cambridge	4	—	—	—	
	Delimara	4	—	—	—	
	Ricasoli	4	—	—	—	
	Station generally	—	8	2	2	
	NOVA SCOTIA.					
	York Redoubt	6	2	2	1	
	Ives Point	5				
	Fort Charlotte	5				
	Fort Clarence	6				
	Fort McNab	6				
	Citadel	—				
	BERMUDA.					
	Fort George	—	3	3	1	Dependent upon Ireland Island.
	,, Hamilton	6				
	,, Prospect					
	,, Langton					
	Ireland Island	6				
	Scaur Hill	—				
	Whale Bay Battery...	6				
	Fort Victoria	6				
	,, Albert					
	,, Cunningham	6				
	Alexandra Battery	—				
	JAMAICA.					
	Rocky Point	6	—	—	—	
	Port Royal	4	1	1	—	
	Fort Clarence	—	1	1	—	
	Apostles Battery	6	—	—	—	

* *See* foot note * on page 32.

‡ *See* foot note ‡ on page 32.

Districts and Works.	Designation number of workshops.*	Tools for repair of garrison carriages and slides (3 D).‡	Tools for repair of wood garrison carriages and slides (3 J).	Tools for repair of Position-finding Instruments. Chest, No. 14 A.	Remarks.
BARBADOS.					
Barbados	—	—	—	1	Dependent upon Ordnance workshop.
St. Lucia.					
Cocoa Nut Estate	—	1	—	—	
Vigie	4	1	—	—	
Morne Fortune	6	1	—	—	
Station generally	—	—	—	1	
MAURITIUS.					
Fort George	—	1	1	—	
Fort William	6	—	—	—	
Fort Victoria	6	—	—	—	
Fort Albert	6	—	—	—	
Station generally	—	—	—	1	
CAPE.					
Table Bay.					
Fort Wynyard	4	2	1	—	
Craigs Battery	4				
Simons Bay.					
Cemetery Battery	4	1	1	—	
Upper North Battery	5				
Station generally	—	—	—	1	
HONG KONG.					
Belchers Battery	4	1	1	—	
Stonecutters Island...	4	1			
Kowloon	5	1			
Lyemun...	4	1			
North Point	6	—	—	—	
Station generally	—	—	1	—	
STRAITS SETTLEMENTS.					
Fort Connaught	4	1	1	—	
Serapong					
Siloso	5				
Passir Panjang	4				
Tanjong Katong	—				
CEYLON	—	—	—	—	Dependent upon Ordnance workshop.
ST. HELENA	4	1	1	—	
SIERRA LEONE.					
King Tom	6	—	—	—	

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1913

* *See* foot note * on page 32. ‡ *See* foot note ‡ on page 32.

Tools to be available for repairs generally.

183. Although these tools will be accounted for as part of the equipment of the several works to which they are appropriated, they will be considered available at all times for use at any other works in the district where repairs, &c., are to be performed by armament artificers.

Workshop and special tools for I.R.F.
57
Colchester
4670

184. A workshop, together with the special tools, instruments, &c., shown in Appendix VIII (page 167), is allowed for each station where there is an Instructor in Range Finding.

185. 9.—DISTRIBUTION OF TEXT BOOKS, HANDBOOKS, RANGE TABLES, &c.

Description.	Royal Artillery.							Militia and Volunteer Artillery.				Army Ordnance Department.			
	Officer Commanding in the District.	Armament Major.	Instructor in Range Finding.	Sub-Districts.	Forts or Batteries.	Movable Armament.	General Instruction.	Officer Commanding in the District.	Headquarters of Corps.	Batteries and Companies.	General Officer Commanding in the District.	Chief Ordnance Officer in the District.	Inspecting Ordnance Officer.	Inspector of Ordnance Machinery.	Armament Artificers.
Textbooks—															
Treatise on Ammunition	1	1	...	1	...	...	1	1	...	...	...	1	1	1	...
" " Military Carriages	1	1	...	1	...	...	1	1	...	...	...	1	1	1	1
" " Service Explosives	1	1	...	1	...	...	1	1	...	...	...	1	1	1	...
" " " Ordnance	1	1	...	1	...	...	1	1	...	...	...	1	1	1	1
Manual of Hydraulics for Garrison Artillery	1	1	...	1	...	...	1	1	...	...	...	1	1	1	...
Textbook of Gunnery	1	1	...	1	...	...	1	...	...	...	...	...	...	...	...
Handbooks—															
Of Ordnance { per piece	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...
Of Ordnance { per nature in possession ...	3	1	...	2	1	...	1	1	3	...	1	3	1	1	...
Of Ordnance { per nature manned on mobilization	...	...	...	...	...	...	...	...	3	2	...	...	...	...	...
Of Position-finder {	3	1	1	2	...	...	1	...	...	...	1	3	...	...	...
Of Position-finder { per instrument on charge ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Of Range-finders { per nature	3	1	1	2	...	...	1	1	3	...	1	3	...	...	...
Of Range-finders { per instrument on charge ...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...
Range tables and fuze scales—															
Per piece	...	...	...	...	1	1	...	...	...	1*	...	...	...	...	...
Per nature of ordnance in possession ...	3	1	...	2	...	...	1	1	3	...	...	...	...	...	...

* Per gun used for practice.

10.—MARKING OF CARRIAGES, WAGONS, &c., AND ARTILLERY STORES.

For detailed instructions, see Part 1.

Lettering of carriages, wagons, &c.

186. The following Table shows the lettering to be carried out for the carriages, wagons, &c., of the Siege Companies and Movable Armaments.

Application of Marks to Carriages, Carts, Wagons, &c., of Siege Companies and Movable Armaments.

Classes of Carriages, Carts, Wagons, &c.	Nature and Position of Marks.	Examples.
	SIEGE COMPANIES.	
Carriages	Title of unit on off side of trail, the words "Siege Company," and nature of piece, on near side of trail.	* E.R.A. Siege Company. 40-pr. R.M.L. 8-in. R.M.L. howitzer.
Limbers	Title of unit, the words "Siege Company," and nature of piece, on rear of bed.	Same as for carriages.
Ammunition boxes ...	Title of unit, the words "Siege Company," and nature of piece, on left rear of each box, close to the top.	Same as for carriages.
Ammunition and store wagons.	Title of unit, the words "Siege Company," and nature of ammunition carried, on tail-board.	* S.R.A. Siege Company. 40-pr. } R.M.L. 25-pr. } (1). 8-in. } R.M.L. 6·6-in. } howr. (2)
Platform wagons ...	Title of unit, the words "Siege Company," and nature of service.	* W.R.A. Siege Company. Gun. Siege Company. Gyn.
Trench cart	Title of unit, and the words "Siege Company," on tail-board	* E.R.A. Siege Company.
Buckets, leather ...	Title of unit, and the words "Siege Company" on outside.	* S.R.A. Siege Company.
Cases, cartridge, leather	Title of unit, the words "Siege Company," and the nature of piece, on outside.	* S.R.A. Siege Company 40-pr. R.B.L. 8-in. howitzer.
	MOVABLE ARMAMENTS.	
Carriages	The words "Movable Armament," and nature of piece, on near side of trail.	Mov. Armt. 40-pr. R.B.L. 16-pr. R.M.L.
Ammunition and store wagons.	The words "Movable Armament" on front board.	Mov. Armt.
Trench carts	The words "Movable Armament" on front board.	Mov. Armt.
Hand carts	The words "Movable Armament" on front board.	Mov. Armt.
Buckets, leather	The words "Movable Armament" on outside.	Mov. Armt.
Cases, cartridge, leather	The words "Movable Armament," and nature of piece, on outside.	Mov. Armt. 40-pr. R.B.L. 16-pr. R.M.L.

* Number of company.

Artillery group marks. 57 / Gen. No. 81

187. The letters and gun numbers of gun groups in works of defence will be painted on the breech or cascable of each gun, and also upon the expense stores, &c., which supply the group, in white on a black ground, or black on a white ground, thus,

$$\frac{A}{1}, \qquad \frac{BQ}{3}.$$

11.—REPAIR AND PRESERVATION OF EQUIPMENT, INCLUDING ARMAMENT OF WORKS.

Harness and Saddlery.

Staff of R.A. Districts.

188. The repair of saddlery allowed for the staff of Royal Artillery districts will be effected by the artificers of the nearest battery when practicable.

Supply of Stores for Care and Preservation of Armaments and Equipments (including Turntables and Gear), &c.

Cleaning Materials and Lubricants.

Instructions for care, &c., of artillery matériel.

189. Detailed instructions for the care and preservation, painting, inspection, &c., of artillery matériel generally,* are contained in "Regulations for Magazines and the Preservation of Artillery Matériel."

For guidance of officers concerned.

190. These instructions will guide officers of the Royal Artillery, and Militia and Volunteer Artillery as far as practicable, in carrying out the service therein referred to, and the Army Ordnance Department in supplying materials and stores for performing the same.

Proportions for.

191. The proportions of stores allowed annually for such purposes* will be found on pages 39 to 92.

Turntables and gear in charge of O.C.R.A.

192. Turntables, and gear for mounting and working heavy guns will be in charge of the officer commanding Royal Artillery, who will have possession of detailed drawings of the same, and will be responsible that they are kept in good condition, and in thorough working order, in accordance with the instructions in "Regulations for Magazines, &c."

57 / Bermuda / 5072

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* Except machine guns; the instructions, and stores allowed, for care and preservation of which, are shown in Section VI of Part I.

193. Stores for Preservation of Gear, Instruments, &c.

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Equip.
1800

Articles.	Gear for landing heavy Guns at Sea Forts. — Proportions.		Chain Ammunition Lift. — Proportions.	Range-Finders. Depression. — Proportions	Apparatus. Observation of Fire. — Proportions per set.
	Chain.	Other parts of gear.			
Blacklead, dry	7 lb. per chain	...	...	—	
Bricks, bath	...	...	1 per lift	—	
Cans, oil, lubricating, armourer's	...	...	...	1 per work*	
Cloths, sponge	...	...	4 per lift	—	
Cotton waste, white ...	28 lb. per chain	...	2 lbs. per lift	—	
Grease, anticorrosive ...	...	...	...	—	
,, Field's	...	...	6 lbs. per lift	—	
Leathers, chamois ...	...	...	...	1 per instrument	2
Linen, old	...	...	...	1 lb. per instrument	2 lb.
Oil, Rangoon	...	10 gall. per set	10 pints per lift	—	
Oil, for instruments ...	...	...	...	1 pint per 4 instruments	½ pint†
Oil, paraffin, light ...	...	5 gall. per set	...	1 pint per instrument	2 pints
Tallow, Russian ...	100 lb. per chain	...	...	—	

54
Artillery
5640

57
D'port
7460A

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* To hold oil for instruments.
† 1 pint bottle biennially.

194. Stores for Pre-

Articles.	Purpose.	Ordnance.			
		B.L.		R.M.L.	
		Open works.	Casemates.	Open works.	Casemates.
Bricks, bath ...	General use†	1 to 2 guns ...	1 to 4 guns‡ ...	1 to 2 guns ...	1 to 4 guns‡ ...
		S.B. 32-pr.			
		1 to 4 guns		...	...
Blankets, unserviceable	For protection of Q.F. guns	...	...	...	...
Cloths, sponge	General use† ...	9·2-in. and over, 30 per gun ... 8-in. and under, 26 per gun ... S.B. 32 pr., 4 per gun		4 per gun ...	...
Cotton waste, white	Wiping oil off slides before practice, and cleaning bright parts.	3 lb. per gun S.B. 32-pr., 2 lb. per gun	3 lb. per gun ...	3 lb. per gun mounted on iron slides, with hydraulic buffers	
Dubbing ...	Leather washers ...	½ lb. per disappearing carriage 1 lb. per pump, air, double ...		1 lb. per high angle mounting.	...
Glycerine ...	Preserving packings ...	4 lb. per 6 inch disappearing carriage with E.O.C. pump		...	...
Grease, anti-corrosive	Coating bright parts (4 coats annually) guns ...	12-in. to 10-in., 6 oz. per gun 9·2-in. to 6-in., 4 oz. per gun 5-in. and under, 3 oz. per gun S.B. 32-pr., 3-oz. per gun ...		...	...
	Coating bright parts (4 coats annually) mountings	6-in., and over, 1¾ lb. per mounting 5-in. and 4 in., ¾ lb. per mounting		7-in. and over, 1¾ lb. per mounting 80-pr. and under, on wrought-iron mountings, ¾ lb. per mounting	
Grease, Field's††	Teeth of cog wheels...	12-in.,		12·5-in. and 12-in. 35 tons	
		5 lb. per gun	3 lb. per gun	5 lb. per gun	3 lb. per gun
		10-in. and under.		12-in. 25 ton to 9-in.	
		4 lb. per gun	2 lb. per gun	4 lb. per gun	2 lb. per gun
				9 in., 7-in., and 64-pr. on Moncrieff carriage.	
				4 lb. per gun	...
	Lubricating racers ...	1 lb. per gun‖	...	1 lb. per gun‖	...
	Turntables	...	...	2 cwt. per gun	...
Hemp, undressed	Cleaning bores†	...	...	...	...
Linen, old, or cotton waste	General use with turntables	...	...	28 lb. per gun	...

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† Half of these proportions will be allowed for guns, carriages, and slides, dismounted, in Royal Artillery charge.

‡ $\frac{38407}{\frac{\text{Equip.}}{1748}}$

servation of Armaments.

R.B.L.		Q.F.					Siege Companies and Movable Armaments.			Smooth-bore Ordnance.
Open works.	Casemates.	6-in.*	4·7-in.	12-pr.	6-pr.	3-pr.	B.L. 5-in. and 4-in., R.B.L. and R.M.L. 40-pr.	R.B.L. and R.M.L. 25-pr. and under.	R.M.L. howitzers.	
1 to 2 guns	1 to 4 guns‡	1 to 2 guns	1 to 2 guns	1 to 6 guns	2 to 5 guns	2 to 5 guns	1 to 4 guns	1 to 6 guns	1 to 5 pieces	1 to 15 pieces.
...	...	...	...	...	...	...	...	...	...	...
...	...	2 per gun	2 per gun	1 per gun	1 per gun	1 per gun	...	...	...	...
4 per gun...	...	26 per gun	26 per gun	10 per gun	7 per gun	7 per gun	4 per gun	4 per gun	4 per piece.	1 to 8 pieces
7-in., 3 lb. per gun, mounted on iron slides		3 lb. per gun‖	3 lb. per gun	3 lb. per gun	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
7-in., 4 oz. per gun... 40-pr. and under, 3 oz. per gun		6-oz. per gun	4 oz. per gun	3 oz. per gun	10 oz. per gun	4 oz. per gun	3 oz. per gun	3 oz. per gun	4 oz. per piece	...
7-in., ¾ lb. per mounting 40-pr. and 20-pr., 6 oz. per mounting §12-pr. and under, 4 oz. per mounting		12-oz. per gun	12 oz. per gun	10 oz. per gun	...	...	...	...	...	...
7-in. on Moncrieff carriage 5 lb. per gun		5 lb. per gun	5 lb. per gun	4 lb. per gun	...	...	2 lb. per carriage	1 lb. per carriage	2 lb. per carriage	...
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...
3 lb. per gun	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...

*57
Gibrltr.
6260

57
Devonpt
6062

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§ Exclusive of guns used for drill.
‖ Mounted on slides having traversing racks.

†† Black grease will be used at all stations abroad, except Halifax and St. Lucia.

57
Gen. No.
6462

	Articles.	Purpose.	Ordnance.			
			B.L.		R.M.L.	
*57 Gibrltr. 6260			Open works.	Casemates.	Open works.	Casemates.
77 6	Linen, old	General use†	1 lb. per gun S.B. 32-pr., 2 lb. per 5 guns	½ lb. per gun‡ ...	1 lb. per gun	½ lb. per gun‡
2785 57 Gen. No. 8903		Cleaning out cylinders ...	10 lb. per gun on disappearing carriage		5 lb. per gun, 9-in. and 10-in., on high angle carriages	
	Luting§	Lubricating metal fuzes and fuze-hole plugs	7 oz. per 100 shells	... ...	7 oz. per 100 shells	... ...
		Adapters of empty shells	9·2-inch to 12-inch, 2¼ lb. per 100 shells		9-inch to 12·5-inch, 2¼ lb. per 100 shells	
		Lubricating gas-check plugs and nuts, Mark II	...	...	1½ lb. per 100 shells	... ...
57 Gen. No. 9947	Mineral, jelly	Coating bore after firing with cordite charges*	...	...	...	...
	Oil, luting††	Lubricating metal fuzes and fuze-hole plugs	⅓ gill per 100 shells	... ...	⅓ gill per 100 shells	... ...
		Adapters of empty shells ...	9·2-inch to 12-inch, 2 gills per 100 shells		9-inch to 12·5-inch, 2 gills per 100 shells	
		Lubricating gas-check plugs and nuts, Mark II	...	...	1 gill per 100 shells	... ...
	Oakum ...	General use† ...	9·2-in. and over, 3 lb. per gun 8-in. and under, 2 lb. per gun		1½ lb. per 5 guns	... ...
	Oil, olive, best quality lubricating,	Lubricating roller paths of turntables	...	...	10 gallons per gun	... ...
		Preservation of obturating pads§§	12-in., 4 pts. per gun ... ... 10-in. to 8-in., 3 pts. per gun 6-in. and under, 2 pts. per gun		...	...
	Oil, Rangoon	Cleaning bright parts, &c.	9·2-in. and over ... 8 qts. per gun‖ ... 6 qts. per gun¶ ...		7-in. and over, 2 pts. per gun,	1¼ pts. per gun
			8-in. and under ... 5 qts. per gun‖ ... 4 qts. per gun¶ ...		80-pr. and under, including 64-pr. on depression carriage, 1¼ pts. per gun	...
		Lubricating axles and bearings of trucks and rollers, shafts and bearings connected with elevating and traversing gears (25 per cent. more allowed to Halifax, N.S.)	12-in., 6 qts. per gun		12·5-in. to 12-in. 35 tons, 4 qts. per gun	3 qts. per gun
			9·2-in. and 10-in. 3 qts. per gun	2 qts. per gun	12-in. 25 tons to 10-in., 3 qts. per gun	2 qts. per gun
			8-in. and 6-in. 2 qts. per gun	1¼ qts. per gun	9-in., 2 qts. per gun	1¼ pts. per gun
			Guns on disappearing carriages 4 qts. per gun	...	7-in., 1 qt. per gun	
			Lighter natures 1 pt. per gun...		Lighter natures on traversing slides, or Moncrieff carriages, also 64-pr. depression carriage, 1 pt. per gun	
			S.B 32 pr., 2 pts. per gun	...		
		Lubricating bearings of turntables	...	...	20 gallons per gun	... ...

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* For quantities *see* Table D page 58.

† *See* footnote † page 40.

‡ 38407
Equip.
1748

§ Mark II luting to be mixed with luting oil.

Ordnance.							Siege Companies and Movable Armaments.			Smooth-bore Ordnance.
R.B.L.		Q.F.								
Open works.	Casemates	6-in.*	4·7-in.	12-pr.	6-pr.	3-pr.	B.L. 5-in. and 4-in., R.B.L. and R.M.L. 40-pr.	R.B.L. and R.M.L. 25-pr, and under.	R.M.L. howitzers.	
1 lb. per gun	½ lb. per gun‡	1 lb. per gun	1 lb. per gun	1 lb. per gun	½ lb. per gun	½ lb. per gun	1¾ lb. per 5 guns.	1 lb. per gun.	1 lb. per piece.	1 lb. per 8 pieces.
...	...	...	...	...	...	...	...	...	...	...
7 oz. per 100 shells ...		7 oz. per 100 shells	7 oz. per 100 shells	7 oz. per 100 shells	...	...	7 oz. per 100 shells	7 oz. per 100 shells	7oz. per 100 shells.	7 oz. per 100 shells
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1½ lb. per 100 shells.	...
...	...	...	...	...	...	...	...	...	...	...
gill per 100 shells ...		⅓ gill per 100 shells	⅓ gill per 100 shells	⅓ gill per 100 shells.	...	...	⅓ gill per 100 shells.	⅓ gill per 100 shells.	⅓ gill per 100 shells	⅓ gill per 100 shells
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1 gill per 100 shells.	...
½ lb. per 5 guns ...		2 lb. per gun	2 lb. per gun	1½ lb. per gun	6 lbs. per 5 guns	6 lb. per 5 guns	1¾ lb. per 5 guns.	1 lb. per 5 guns	1½ lb. per 5 pieces	1 lb. per 15 pieces
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	1½ pts. per gun.	...	...	...
2½ pts. per gun‖ ...		5 qts. per gun‖	5 qts. per gun‖	4 qts. per gun‖	1 qt. per gun	1 qt. per gun	2½ pts. per gun.	1 pt. per gun	1½ pts. per piece	1 pt. to 8 pieces
1¼ pts. per gun¶ ...		4 qts. per gun¶	4 qts. per gun¶	3 qts. per gun¶	...	...	...	...	...	...
Guns on traversing slides or Moncrieff carriages, 1 pt. per gun.		2 qts. per gun	2 qts. per gun	2 qts. per gun	...	...	...	...	...	Guns on traversing slides, 1 pt. per gun
...	...	...	...	...	...	...	...	...	...	...

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†† To be mixed with luting. The mixing should be by weight in the proportion of 100 luting to 17 of luting oil. This oil will be issued in tin bottles containing 1 gallon and 1 quart respectively, as most convenient, according to the quantities demanded. When luting oil is used up, Mark III luting and mineral jelly, in equal proportions by weight (*e.g.* for lubricating metal fuzes and fuze hole plugs 3½ oz. of each per 100 shells will be issued.

§§ To be mixed with the Russian tallow.

‖ Guns in use for drill. ¶ Guns not in use for drill.

Articles.	Purpose.	Ordnance.			
		B.L.		R.M.L.	
		Open works.	Casemates.	Open works.	Casemates.
Oil, paraffin, light†	Cleaning off rust	1 gall. per gun	...	1 gall. per 9-in. and upwards, and Moncrieff carriage	...
	Cleaning off clogged oil ...	1 gall. per gun	... ...	1 gall. per 9-in. and upwards, and Moncrieff carriage 2 gallons per gun, mounted on turntables	
Potash, American	Removing lacquer from bores of guns	12-in., 6 lb. per gun ... ... 10-in. and 9·2 in., 3 lb. per gun 8-in. and under, 2 lb. per gun		12·5 in. and 12-in., 5 lb. per gun 11-in. and 10-in., 4 lb. per gun 9 in., 2 lb. per gun ... ... 7-in. and under, 1½ lb. per gun	
Soap, soft ...	General use†	6 lb. per 5 guns S.B. 32-pr., 2 lb. per 5 guns	3 lb. per 5 guns†	3 lb. per 5 guns	1½ lb. per 5 guns†
Soda	Washing fired cartridges	...	...	...	...
Tallow, Russian	Pivot plugs and holes of pivot plugs	1½ lb. per pivot plug	...	1½ lb. per pivot plug for heavy ordnance, 1 lb. per pivot plug for medium ordnance	...
	Preservation of obturating pads and lubricating breech screw and breech opening‖	12-in., 4 lb. per gun ... ... 10-in. to 8-in., 3 lb. per gun ... 6 in. and under, 2 lb. per gun		...	...
	Lubrication of ball bearings ...	...	...	1 lb. per high angle mounting	...
	Preserving hydraulic packing	1 lb. per disappearing carriage		...	...

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† "Cans, oil, lubricating, G.S.," allowed in the proportion of 1 per work to hold the paraffin.

Ordnance.							Siege Companies and Movable Armaments.			Smooth-bore Ordnance.	
R.B.L.		Q.F.									
Open works.	Casemates.	6-in.*	4 7-in.	12-pr.	6-pr.	3-pr.	B.L. 5-in. and 4-in., R.B.L. and R.M.L. 40-pr.	R.B.L. and R.M.L., 25-pr. and under.	R.M.L. howitzers.		*57 Gibrltr 6260
1 gall. per Moncrieff carriage		1 gall. per gun	1 gall. per gun	3 qts. per gun	½ pt. per gun	½ pt. per gun	2 pts. per carriage	1½ pts. per carriage	2 pts. per carriage	...	
1 gall. per Moncrieff carriage		...	...	...	...	...	2 pts. per carriage	1½ pts. per carriage	2 pts. per carriage	...	
7-in., 2 lb. per gun 40-pr. and under, 1½ lb. per gun.		2 lb. per gun	2 lb. per gun	1 lb. per gun	1 lb. per gun	1 lb. per gun	1½ lb. per gun	...	...	68-pr. and 32-pr., 2 lb. per piece, 24-pr. and under, 1 lb. per piece	
3 lb. per 5 guns	1½ lb. per 5 guns†	1½ lb. per gun	6 lb. per 5 guns	2 lb. per gun	2 lb. per 5 guns	2 lb. per 5 guns	2 lb. per gun	2 lb. per gun.	2 lb. per piece	1 lb. per 8 pieces	57 Malta 1191
...	...	—	As required‡		—	—	...	...	...	...	
1 lb. per pivot plug	...	...	...	...	...	...	...	...	...	...	
...	...	2 lb. per gun	2 lb. per gun	2 lb. per gun	...	...	1½ lb. per gun	...	...	..	57 Malta 1344
...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	... 1344

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† *See* footnote † page 40. ‡ *See* footnote † on pages 259 and 289.

‖ To be mixed with the olive oil for obturating pads.

Extra articles.

195. Should other articles not mentioned in the table be exceptionally required in certain cases, such articles will be supplied to officers commanding Royal Artillery on special demand, the purpose for which they are required being clearly stated in the requisition. Woollen rags and dressed flax will not be allowed.

Removal of rust.

196. Emery should on no account be used on ordnance machinery. Rust should first be loosened by coating the part affected with paraffin, and then rubbed off with cotton waste, and the part smoothed with bath brick.

Special issues on first receipt from store.

197. Officers in command of Royal Artillery districts may also demand, on the receipt from store of rifled ordnance, carriages, and slides, requiring to be specially cleaned and lubricated when first mounted on the defences, an additional supply of bath bricks, grease, hemp, and oil, in such quantities, not exceeding one-half the annual proportion, as may be absolutely requisite. Less than one bath brick need not be demanded.

Increased allowance for special positions.

198. In certain positions, such as those of the sea batteries at Portsmouth, where the armament is much exposed, the annual proportions of grease and oil may be increased 10 per cent., if necessary.

Lubricants for wheels.

199. In addition to the above, the following proportions of lubricants will be allowed annually for use with wheels, gyns, shell lifts, landing gear, &c., and for the preservation of straps and leather work for travelling carriages forming part of the armament of districts or reserves; also for leather ammunition boxes and small store boxes:—

57 Malta 1191	Dubbing	7-pr. R.M.L. battery, without wagons, ½ lb. per gun	For straps and leather work.
		Other batteries, 1 lb. per gun	
		7-pr. and 2·5-inch R.M.L. (pack transport equipment) in movable armament...	¾ lb. for each leather ammunition box, and small store box*
		1 lb. per magazine leather hide.	
		1 lb. per 25 pairs of magazine boot or shoes.	
		1 lb. per 100 leather straps, of sorts.	
	Grease, Field's†	3 lbs. per wheel of carriages, wagons, and carts	On certificate of commandg. officer that they are in constant use.
		½ lb. ditto ditto	When not in constant use.
		4 lbs. per set of light gear for landing carriages, &c., at sea forts.	
		10 lbs. per rope mantlet.	
		8 ozs. each for three or less winches	For shell lifts.
		6 ozs. each if over 3 and not exceeding 6 winches...	
		4 ozs. ,, 6 ,, ,, 12 ,, ...	
	Oil, Rangoon	1 quart per gyn, crab, or windlass.	
		2 quarts per set of light gear for landing carriages, &c., at sea forts.	
		2 pints each for 3 or less winches	For shell lifts.
		1½ pints each if over 3 and not exceeding 6 winches	
		1 pint ,, 6 ,, ,, 12 ,, ...	
38407 Equip. 1748	Oil, linseed, boiled.	1 pint for "Breech" chain sling, 12 to 25 ton.	
		1 ,, muzzle ,, ,,	
		⅓ pint per fathom of 1½-in. chain	When used for lashing, &c., in short lengths.
		¼ pint ,, 1-in. ,, ...	
		⅙ pint ,, ¾-in. ,, ...	
		⅛ pint ,, ⅝-in. ,, ...	
	Oil, olive, best quality, lubricating.	⅓ pint per fathom of 1½-in. chain	When used for falls of cranes, winches, &c.
		¼ pint ,, 1-in. ,, ...	
		⅙ pint ,, ¾-in. ,, ...	
		⅛ pint ,, ⅝-in. ,, ...	
	Soap, soft	7-pr. and 2·5-inch R.M.L. (pack transport equipment) in movable armament	¾ lb. for each leather ammunition box and small store box*
	Linen, old—1 lb. per lamp or lantern	... ...	On certificate of commandg. officer that they are in constant use.
	Turpentine, spirits of—½ pint for every 5 lamps or lanterns...	...	
	Whiting, fine—2 lb. for every 5 lamps or lanterns	... ...	

57
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6462

* This quantity is sufficient for at least two applications in the year.

† Black grease will be used in place of Field's grease at all stations abroad except British North America and St. Lucia.

200. Drawbridges, cranes for use at landing stages, and other machinery, in connection with works, in charge of the Royal Artillery, will be kept in proper working order by them, and the lubricants necessary for this purpose will be demanded and drawn by the Royal Artillery direct from the Army Ordnance Department.

Drawbridges, cranes, etc., in connection with works to be in charge of R.A.
57
Portsmouth.
3974

201. Stores for Cleaning and Preservation of Position-Finders and Marking Xylonite.

57
Gen. No.
9159

Stores.		No.	Remarks.	
Woolwich Section No. 7.				
Cloth, emery, fine	sheets	1	Annual supply per instrument.	
Cloth, glass, ,,	,,	1		
Wire, brass, No. 12, W. G., hard	feet	1		
Woolwich Section No. 9.				
Solder, tinman's	lb.	½		
Woolwich Section No. 11.				
Bottles, stone, 1 pint		1§		57 Portsmouth 4522
Compound, Chatterton's	oz.	1		
Oil, for instruments	pints	½*		
Oil, paraffin, light	,,	1		
Resin, black	oz.	2		
Woolwich Section No. 27.				
Cotton waste, white	lb.	2		
Woolwich Section No. 28.				
Cable, electric, D. 10.	yds.	3		57 Dover. 3319
Tools, jointers', telegraph— Gutta percha, sheet, 17 S.W.G.	lb.	¼		
Wire, cotton, covered, C.	yds.	1		
Woolwich Section No. 31.				
Rags, old, linen	lb.	2		57 Portsmouth 4522
Not in Vocabulary.				
Ink, Indian, bottles		¼		
Knives, desk		1‡ §		... 9159
Pencils, black lead, H.B.		4‡		
Polish, white special	pints	¼		
Soap, Brooks' monkey brand	cakes	1†		
Weedon Section.				
Bits, soldering, 1½ lbs.		2§	Per 10 or less number of instruments in a district, per annum.	57 Cape 5755
Woolwich Section No. 7.				
Brushes, camel hair, 1½-inch		2		... 9159
Woolwich Section No. 10.				
Screws, ¾-inch, No. 7, iron, flathead	gross	1		

* Issued in pint bottles biennially.

† Local supply. ‡ Supplied by the War Office on requisition.

§ To be exchanged as they become unserviceable.

	Stores.		No.	Remarks.
	Woolwich Section No. 11.			
	Lacquer, black	pints	3	Per 10 or less number of instruments in a district, per annum.
	Lacquer, pale gold	,,	¼	
	Methylated Spirits,	,,	1	
	Polish, French	gills	3½	
	Woolwich Section No. 25.			
	Brushes, paint, sash tool, No. 2		1	
	Brushes, paint, sash tool, ,, 4		1	
	Wick, common	lb.	½	
	Woolwich Section No. 28.			
	Tools, jointers', telegraph—			
	Brushes, camel hair, goose, large		2	
	Lamps, spirit, telegraph equipment		1*	
	Funnels, battery cell		1*	
	Woolwich Section No. 29.			
	Pens, mapping	doz.	1	
	Not in Vocabulary.			
57 Gen. No. 9159	**Ink,** xylonite, black	pints	¼	
	Ink, xylonite, violet	,,	¼	
	Wood, for battens, mahogany, ¾" × ½"	ft.	10†	
	Terminals, brass (special for Position-finders)		3.	
	Woolwich Section No. 11.			
	Sal-ammoniac, crushed	lb.	1	Per cell in use, per annum.
	Woolwich Section No. 7.			
57 Cape 5755	**Can,** oil, lubricating, armourers'		1*	Per P. F.
	Woolwich Section No. 27.			
	Leather, Chamois		1*	Per P. F.
	Woolwich Section No. 25.			
	Stools, serjeants'		1	Per P. F. cell.
	Boards, inventory		1	
	Brooms, bass		1	Per P. F. station.
57 Devonport. 6296	**Brushes,** scrubbing, hand		1	
	Brushes, sweeping, hand		1	
	Brushes, sweeping, long		1	
	Woolwich Section No. 26.			
	Pails, iron, galvanised, 3 galls.		1	Per 2 P. F. cells.
	Woolwich Section No. 31.			
	Cloth, woollen, old	lb.	2	Per P. F. cell per quarter.
	Woolwich Section No. 28.			
57 Portsmouth 3625	**Tape,** I.R. pure, ⅜-inch		—	As required for covering joints.

* To be exchanged as they become unserviceable.
† Local supply.

202. Crushed sal-ammoniac is allowed for the maintenance of Le Clanché cells (other than position finding) in the following proportions :—

For each sealed cell of such batteries as are used solely for firing tubes, 8 ozs. per annum.

For each large open cell of other batteries, 1 lb. per annum.

"Funnels battery cell" are allowed for filling these cells at the rate of 2 per section of defence.

Sal-ammoniac for maintenance of Le Clanché cells.

57/I. of W./1727

57/Malta/1237

Supply of Paint and Painting of Ordnance, etc.

203. Guns and mountings will, where necessary, be painted in colour to harmonise with their surroundings with the view to lessening their visibility, and paint of the necessary colours will be supplied. For other stores, and where colour painting is not considered necessary for the guns and mountings, the paints described in Tables C, E, F, I, K, and M (pages 57, 58, 59, 61 to 63, 68 to 78, and 88 to 90 respectively) will be used.

Colouring of guns and mountings.

204. Tables showing the time, working pay, and quantities of material allowed for cleaning, painting, examining, &c., ordnance carriages, slides, and other stores, together with lists of the tools required for those services, are printed in the Tables in sub-section 14, pages 54 to 92. The prices given in these tables are for piecework ; the time being added for general guidance in the due performance of the services.

Time, working pay, materials and tools for painting.

205. Paint, for painting group marks alluded to in paragraph 187, and manning boards for assembly parades, is allowed in such quantities as may be required, on the certificate of the officer commanding Royal Artillery that such quantities are absolutely necessary for the purpose. The paint will only be demanded as it becomes necessary to renew the painting of the group marks and manning boards, and the date of the last painting should be quoted in the demand (*see* Table P, page 92).

Paint for group symbols and manning boards.

206. The paint required for painting armaments is supplied to the Royal Artillery, on demand, prepared and ready for use, no driers are therefore required. Linseed oil for thinning the paint should, for the same reason, be unnecessary, if the paint is properly stirred up before use.

Paint, supplied ready for use. No driers or thinnings required.

207. In order to ensure that paint may always be in good condition, it will not be drawn from store in larger quantities than are required for immediate use.

To be drawn for immediate use only.

208. Varnish, japan black, or varnish sealing wax, may be used instead of paint, at the option of the commanding officer. The sealing wax varnish is intended for the points and terminals of electric firing leads, for spring discs of recoil stops, and for marking out the danger zones on the graduation arc. One gallon of varnish to be considered equal to 20 lb. of paint.

Varnish may be used instead of paint.

57/Gen. No./9425

209. The necessary dismounting, placing on skidding, raising out of trunnion holes, and mounting ordnance in charge of the Royal Artillery, form part of the duties of artillery soldiers, for which working pay is not allowed, and should, when practicable, be performed independently of the working parties.

Dismounting, &c., to be performed by the Royal Artillery.

Royal Artillery to keep bores of guns in order.

210. It is the duty of the Royal Artillery to keep in perfect order the bores of all ordnance in their charge, and working pay is not granted for this service.

Working pay list.

211. The form of working pay list, Army Form O 1677, will be used for the services to which the tables relate, and will show the various articles in detail, and the sequence in which they appear in the tables.

Materials and labour from local tradesmen.

212. At stations where military labour is not readily available, and when it would be more economical to obtain the materials and labour from local tradesmen, the officer commanding the Royal Artillery will follow the course laid down in paragraph 321, Part I.

Instructions for the Care, Preservation and Examination of Machine Guns.

Machine guns, care and preservation of.

77
6
2785

213. Instructions for the care, preservation and examination of machine guns, and their mountings, are laid down in Section VI. of Part I., and arrangements for their examination and repair will be made by officers commanding Royal Artillery as therein directed.

Supply of Gauges for Projectiles.

Supply of gauges to R.A. and A.O.D.

214. Royal Artillery and Army Ordnance Department will be supplied, as may be required, with ring gauges, body and gas check, and ring gauges, body and studs, for R.M.L. projectiles; high gauges for B.L., R.B.L., and S.B. projectiles; and chamber gauges for 6-pr. and 3-pr. Q.F. ammunition.

To stations of inspection.

215. Stations of inspection will, in addition to the gauges mentioned in the preceding paragraph, be supplied with cylinder gauges (or ring gauges, body and studs, if cylinder gauges are not available), and ring gauges, low over studs, for R.M.L.; and low gauges for B.L., R.B.L., and S.B. projectiles.

High gauges.

216. The dimensions of the high gauges for R.M.L. projectiles are slightly in excess of those of the standard gauges by which the projectiles are received into the service; they, as well as all other high gauges, are issued for the purpose of indicating what projectiles are or are not fit for issue, or, if issued, whether, notwithstanding damaged studs, rings, thickened paint or rust on exterior, etc., they are still within such limits as will admit of their being properly loaded.

Retention of O.P. gauges.

217. Any gauges of old pattern, which may be on charge, if of proper dimensions, will be retained for use while serviceable.

12.—INSTRUCTIONS FOR KEEPING THE STORE ACCOUNTS IN ROYAL ARTILLERY DISTRICTS AND OF THE ESTABLISHMENTS ENUMERATED IN PARAGRAPH.

Instructions for keeping equipment ledgers to generally apply.

218. The "Instructions for Keeping Regimental and Staff Equipment Ledgers," Part I, Appendix I, being generally applicable, except as hereinafter modified, to Royal Artillery store accounts, will be attended to by all who are concerned in keeping these accounts.

Accountant.

219. The officer in charge of an armament district or the officer commanding a militia or volunteer corps, is the accountant (*see* Part I, page iv, Definitions) for all armament or artillery stores in his charge. The former officer will also account for the position finding and range-finding instruments, and the stores connected therewith in use in his district.

220. The store account records to be kept in each Royal Artillery district will be rendered on Army Form G 908A, for every work having an authorised armament or equipment; miscellaneous stores at a work, which do not form part of the authorised armament or equipment, will be accounted for on the blank pages at the end of Army Form G 908A. All other miscellaneous stores not on charge in Army Form G 908A will be accounted for in Army Form G 885. Stores for moving, mounting and examining ordnance, &c., will be included in Army Form G 908A. **Store account records.**

221. A separate account will be rendered for each work, or for each group of works, comprising the unit of charge of a master gunner or non-commissioned officer, as may be found desirable. **Separate accounts for each master-gunner's charge.**

222. The accounts on Army Form G 908A and G 885, will show the quantities in possession on the date of opening the receipts and the issues, and the balances remaining on the date of closing the accounts, of all stores which should be recorded therein (*see* paragraph 226). **Scope of accounts.**

223. Except as mentioned in paragraph 224, gas checks will not be considered as components of the projectiles with which such gas checks are used, and will be separately demanded, charged and accounted for. **Gas checks, demands for.**

224. The gas checks of projectiles for 13-pr., 15-pr., 2·5-inch guns, and 4-inch howitzers being permanently attached, are held to be components and not separate articles of store, and will not be separately demanded, charged, or accounted for. **Gas checks components of projectiles.**

225. Fuze-hole plugs and base plugs will in all cases be demanded, charged, and accounted for, as separate articles of supply. **Plugs, fuze hole, demands for.**

226. Materials for repair and preservation of armament or equipment, as well as all stores drawn periodically for expenditure, except ammunition, will not be taken on charge in the accounts. The requisitions for the supply of these stores will show any quantities remaining on hand, and will bear a certificate that the quantities expended of the preceding supply were duly applied. **Expendible stores not to be accounted for.**

227. Ammunition will be taken on charge in the accounts. Quantities expended at practice will be written off charge by "Artillery Practice Ammunition Expense Voucher" (Army Form P 1926), which will show in detail the ammunition actually expended, together with its money value calculated at the rates laid down in "Statement showing complete cost of Rounds of Ammunition" in force for the time being. **Amm to be accounted for.**

57
Gen. No.
9958

228. Models, specimens, sections of shells, fuzes, and tubes for instructional purposes will not be shown in the accounts, but accurate lists of such articles will be kept in the instruction rooms and district office, and they will be dealt with in the same way as lithographs, official books, printed records, and maps, under paragraphs 106 and 107, Part I. **Models, &c., not to be shown in the accounts.**

229. The master gunner or non-commissioned officer in charge of stores will keep the store accounts under the orders of the officer or accountant in charge of the armament district, who alone will be responsible for any loss that may occur, and will, when each of the accounts in his armament district is balanced on the **Keeping accounts.**

31st March of each year, check, sign, and transmit one copy to the Under Secretary of State for War, War Office. Each account will be accompanied by the vouchers referred to in the transactions recorded in it. A duplicate copy of each account will be retained in the work to which it refers. Each voucher will be signed by the accountant, and the date of entry in the account will be noted on it.

Correspondence in connection with equipment.

230. The accountants will correspond direct with the Army Ordnance Department on all matters connected with demands, requisitions, and questions concerning stores forming part of their authorized equipments, except in cases of condemnation, or loss of stores, when the circumstances will be reported to the officer commanding Royal Artillery in the district, and the instructions contained in paragraphs 73 to 83 of Equipment Regulations, Part I, will be followed. Correspondence connected with any proposed addition to, or reduction of, the authorized equipments should be addressed by the accountant concerned to the lieutenant-colonel commanding, for submission to the officer commanding Royal Artillery and general officer commanding.

Demands for stores.

231. Demands for stores, and the issues in discharge of such demands will be made for each separate account.

Transfer of charge.

232. Upon the transfer of charge from one accountant to another, a verification of stock by a board of officers need not be made, unless at the request of either the officer handing over or the one taking over charge, as laid down in Part I, paragraph 12.

Stores for experimental purposes, &c.

233. Stores issued to Royal Artillery districts for experimental purposes, or for proof of mountings, will be at once taken on charge and accounted for in Army Form G 908A; such stores will be kept distinct from other stores forming the armament of any work or position.

Certificate of cleaning materials, &c., demanded and expended.

234. Accountants will furnish with the store accounts rendered by them a certificate that only the authorised proportions of ammunition, cleaning material, &c., have been expended in their respective charges.

Exchanges of components.

235. Exchanges of component parts of guns, mountings, &c., will be shown in the accounts in the manner indicated in Appendix I, Part I. If, however, the two transactions do not occur in the same period of account, explanatory cross references will be given instead on each of the vouchers concerned.

Stations where special form of accounts are kept.

236. At each of the undermentioned stations accounts will be prepared in manuscript, on Army Book 209A, B, C, or E (as may be found necessary).

Shoeburyness School of Gunnery.
Woolwich { Royal Artillery District Staff.
Woolwich { Royal Military Academy.
Woolwich { Royal Military Repository.

Accounts to be accompanied by balance sheets.

237. These accounts, when transmitted to the War Office, will be accompanied by balance sheets, which will be exact transcripts of the remain as shown in the ledgers, and should agree with the quantities actually in possession on the 31st March in each year.

Method of keeping special accounts.

238. The instructions for keeping the store accounts of works or positions do not apply to the stations specified in paragraph 236. All stores received in or issued from these stations will be accounted for in the ledgers, except that the ledgers of the Royal Military Repository will show only those stores which are to be accounted for in the accounts of works or positions.

Agreements with vocabulary of stores and actual issues.

239. Great care is to be taken in all accounts that the stores are described in exact accordance with the Vocabulary of Stores in force for the time being, and further that the descriptions, numbers, and quantities shown in vouchers and ledgers agree in all respects with the stores actually received, issued, and held on charge. Stores issued in sets will be accounted for as directed in the Instruction for keeping regimental and staff equipment ledgers, Appendix I, Part I.

13.—INSPECTION OF ORDNANCE.

General Instructions.

38407
Ord. Stores
122

Examination of ordnance, procedure where there is I.O.O. or I.O.M.

240. When guns of the royal artillery, militia, or volunteer artillery, require examination the officer commanding royal artillery will submit Army Form G 875 with memorandum of examination to the chief ordnance officer, who will make arrangements for the examination to be carried out by the inspecting officer in the district, or by the inspector of ordnance machinery. The inspector will make two copies of this form, and on completion of the examination will enter the sentences on, and sign all three. The original he will pass to the officer in charge of the gun for transmission to the officer commanding royal artillery; the other two copies, with impressions, if necessary, will be forwarded by the chief ordnance officer direct to the chief inspector, Woolwich. The chief inspector, Woolwich, will enter final sentences, retain one copy and return the other to the chief ordnance officer, who will retain it after passing to the officer commanding royal artillery to note. In the event of the gun being serviceable the "Memorandum of Examination" will be returned by the inspector direct to the officer in charge of the gun, if unserviceable he will forward it with the impressions. The chief inspector, Woolwich, will return it after final sentences through the chief ordnance officer.

Where there is no I.O.O. or I.O.M.

241. In districts at home in which there is no inspecting ordnance officer, or inspector of ordnance machinery, the chief ordnance officer will forward the requisition to the chief inspector, Woolwich, who will arrange for the examination to be carried out, and if necessary send an examiner to the station.

Ordnance in important positions, &c.

242. If ordnance found unserviceable, or requiring reventing or repair, as above, are mounted in an important position, or if local circumstances render their immediate exchange necessary, they will at once be exchanged, if practicable, by requisition on the chief ordnance officer, approved by the general officer commanding. In such cases the requisition, after being complied with, will be forwarded by the chief ordnance officer to the War Office.

Inquiry to be made immediately into the cause of accidents.

243. Should an accident occur, either at home or abroad, such as the bursting of a shell in the bore, the splitting of a vent axial, &c., immediate inquiry will be made into the circumstances, and the ordnance examined. If the commanding officer considers the damage to be of importance, he will send without delay a report of the circumstances through the same channel as his annual return, forwarding, if necessary for the illustration of his report, gutta-percha impressions of the damage done to the ordnance.

14.—TABLES OF TOOLS, TIME, WORKING PAY, AND

Referred to in

TABLE A.—List of Tools required for the Cleaning, Examination,

Tools.	Nature.																		
	B.L.											R.B.L.					R.M.L.		
	13·5-inch.	12-inch.	10-inch.	9·2-inch.	8-inch.	6-inch.	5-inch.	4-inch.	15 and 12-pr.	6-in. 30-cwt. howitzer.	5-in. howitzer.	7-inch.	40-pr.	40-pr. side closing.	20-pr.	12- and 9-pr.	17·72-inch.	12·5-inch.	
Woolwich Section, No. 7.																			
Knives, putty	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Woolwich Section, No. 16.																			
Holders, brush, No. 1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Holders, brush, No. 2	...	...	*a*	*a*	*a*	*a*	*a*	...	...	...	...	*a*	*a*	*a*	...	...	...	...	3
Holders, brush, No. 3	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*a*	4
Holders, brush, No. 4	...	...	...	...	...	...	...	...	*a*	*a*	*a*	...	...	...	*a*	*a*	...	...	5
Scrapers, ordnance, exterior	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	...	*a*	*a*	*a*	*a*	*a*	*a*	*a*	6
Woolwich Section, No. 17.																			
Bits, vent, 36-inch	*a*	*a*	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	*a*	**a*	7
Bits, vent, 20-inch	...	...	...	...	*a*	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	8
Rods, vent, 36-inch	*a*	*a*	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	*a*	*a*	9
Rods, vent, 20-inch	...	...	...	...	*a*	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	10
Woolwich Section, No. 18.																			
Brushes, gun, soft, small	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
Brushes, piasaba, B.L., bore	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	12
Brushes, piasaba, Q.F., bore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Brushes, piasaba, R.B.L.	...	...	...	...	...	...	...	...	...	...	1	*a*	*a*	1	1	...	...	...	14
Brushes, piasaba, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	15
Woolwich Section, No. 22.																			
Bits, vent, Armstrong	...	...	...	...	...	...	...	...	...	...	...	*a*	*a*	...	*a*	*a*	...	...	16
Woolwich Section, No. 25.																			
Brushes, paint, ground, 000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
Brushes, paint, unground, 000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
Brushes, paint, sash tool, No. 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19

a Common.

MATERIALS FOR SCRAPING AND PAINTING ORDNANCE, &c.

paragraph 204.

Painting and Lacquering of the various natures of Rifled Ordnance.

	Nature.																								Remarks.
	R.M.L.																R.M.L. jointed.			Quick firing.					
	12-inch.	11-inch.	10·4-inch.	10-inch.	9-inch.	8-in. howitzer.	7-inch.	6·6-inch howitzer.	80-pr., and 64-pr. 71 and 58 cwt.	6·3-in. howitzer and 64-pr. 64 cwt.	40-pr.	25-pr.	16-pr.	13-pr.	9-pr.	7-pr.	4-in. howitzer.	15-pr.	2·5-inch.	or Q.F.C. 6-inch.	4·7-inch.	12-pr.	6-pr.	3-pr.	
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per 10 or less wood carriage.
2	...	...	...	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	...	...	...	...	...	...	...	...	For end of bore.
3	...	...	...	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	...	...	...	...	...	*a*	...	...	*a*	...	...	...	...	
4	*a*	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
5	...	...	...	...	...	...	...	...	...	...	...	*a*	*a*	*a*	*a*	*a*	...	...	...	...	...	*a*	...	...	
6	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	...	...	...	*a*	...	*a*	...	...	
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*Mark II gun only.
8	...	...	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
10	...	...	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
15	*1	1	1	1	1	1	1	1	*a*	*a*	1	1	1	1	1	1	...	...	...	...	...	...	...	...	*1 for { 35-ton. 25 ,, } 57 / Vocab. / 3752
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Issued as required for painting or lacquering, also oiling projectiles. 57 / Gen. No. / 9945
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

a Common.

TABLE B.

List of Tools required for the Cleaning, Examination, Painting and Lacquering of the various natures of Cast-iron and Bronze Ordnance.

Tools.	Nature.						Remarks.
	8-inch and 68-pr.	32-pr.	24-pr.	12-pr.	9-pr.	32-pr. S.B. B.L.	
Woolwich Section, No. 16.							
Holders, brush, No. 1	*a*	*a*	*a*	*a*	*a*	...	.... for lacquering only.
Holders, brush, No. 2	*a*	*a*	*a*	*a*	*a*	*a*	For end of bore
Scrapers, ordnance, exterior	*a*	*a*	*a*	*a*	*a*	*a*	Old swords, issued as required.
Woolwich Section, No. 18.							
Brushes ... gun, hard, S.B.	1	*a*	1	1	1	*a*	
Brushes ... gun, soft, large	1	...	...	...	...	...	
Brushes ... gun, soft, small	...	*a*	*a*	*a*	*a*	*a*	
Woolwich Section, No. 25.							
Brushes, paint, ground, 000	...	...	...	...	...	...	Issued as required for painting or lacquering.
Brushes, paint, unground, 000	...	...	...	...	...	...	
Brushes, paint, sash tool, No. 8	...	...	...	...	...	...	

TABLE C.
Quantities of Paint and Lacquer for Rifled Ordnance.

Description.		Quantities of					
		Magnetic Oxide each Coat.*		Lacquer for Bores, one Coat.		White paint, each Coat.	
		lb.	oz.	lb.	oz.	lb.	oz.
Ordnance, B.L.	13·5-inch	7	8	4	12	—	
	12 ,,	5	14	3	0	—	
	10 ,,	6	0	4	0	—	
	9·2 ,,	6	0	3	8	—	
	8 ,,	5	0	2	0	—	
	6 ,,	3	0	1	8	—	
	6 ,, 30-cwt. howitzer	1	2	0	6	—	
	5 ,,	1	8	0	12	—	
	4 ,,	1	0	0	12	—	
Ordnance, R.B.L	7-inch 82-cwt.	1	8	0	6	—	
	7-inch 72-cwt.	1	8	0	5	—	
	40-pr.	1	0	0	4	—	
	20 ,,	0	12	0	4	—	
	12 ,,	0	7½	0	2	—	
	9 ,,	0	6	0	1¾	—	
Ordnance, R.M.L.	17·72-inch	7	8	5	8	—	
	12·5 ,,	4	12	0	14	—	
	12 ,, 35-ton	4	8	0	13	—	
	12 ,, 25 ,,	3	4	0	12	—	
	11 ,,	3	4	0	11	—	
	10·4 ,,	5	0	4	8	—	
	10 ,,	2	12	0	9	—	
	9 ,,	2	0	0	8	—	
	8-inch howitzer 70-cwt.	1	4	0	8	—	
	8-inch howitzer 46-cwt.	0	14	0	5	—	
	7 ,,	1	0	0	6	—	
	6·6 ,,	1	4	0	8	—	
	6·6 ,, howitzer	0	14	0	6	—	
	6·3 ,, ,,	0	12	0	4	—	
	80-pr.	1	4	0	8	—	
	64 ,,	1	2	0	6	—	
	40 ,,	0	14	0	4	—	
	25 ,,	0	12	0	3	—	
	16, 15, and 13-pr.	0	7	0	2	—	
	9-pr.	0	6	0	1¾	—	
	7 ,, (150 and 200 lbs.)	0	4	0	1½	—	
	4-inch howitzer	0	7	0	2	—	
	2·5 ,,	0	6	0	2	—	
Ordnance, Q.F.	6-inch, Mark II	2	0	1	12	1	4
	4·7 ,,	1	8	0	12	—	
	12-pr.	0	10	0	4	—	
	6 ,,	0	6	0	2	—	
	3 ,,	0	5	0	1½	—	

57
Devonport
7050

57
Gibraltar
6260

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* At those stations where the guns (and works) are to be painted to harmonize with the surroundings, paints of various colours will be allowed in the proportions herein laid down for magnetic oxide, except in the case of French grey, light brown, and stone-colour paints (which are heavier than magnetic oxide), of which 25 per cent. more will be allowed where such is used. In the case of light colour paints $\frac{1}{10}$th pint of copal varnish to 1lb. of paint will be incorporated with the paint before the latter is applied.

57
Cork
4402

TABLE D.

Quantities of Mineral Jelly for Preservation of Bores of B.L. and Q.F. Guns after firing Cordite Charges.

Referred to at page 42, *footnote* *.

57
Gen. No.
9947

Ordnance. Description.	Ordnance. Mark.	Quantity allowed for ONE application. lb.	oz.
Ordnance, B.L.—			
12-inch	I and IA	3	2
	VI and VII	3	4
10 ,, ...	I—IV	2	14
9·2 ,, ...	I	2	3
	III—VII	2	11
	IX	4	8
8 ,, ...	VII and VIIA	1	7
6 ,, ...	III—VI	0	14
5 ,, ...	II—V	0	9
4 ,, ...	V—VI	0	7
6 ,, 30-cwt. howitzer ...	—	0	7
5 ,, howitzer	—	0	3
Ordnance, Q.F.—			
6-inch	II	1	4
4·7 ,, ...	II and III	0	13
12-pr. 12-cwt. A	—	0	5
6-pr.	—	0	3
3-pr.	—	0	2

TABLE E.

Quantities of Paint and Lacquer for the Exterior and Bores of S.B. Ordnance.

Description.				Quantities of Magnetic Oxide, each Coat. lb.	oz.	Quantities of Lacquer for Bores, one Coat. lb.	oz.
Ordnance, S.B.	Carronades	32 or 24-pr.		0	6	0	3
		18 or 12 ,, ...		0	4	0	2
	Guns ...	8-inch	65 or 60 cwt.	1	0	0	6
			54 cwt.	0	14	0	5
		68-pr.	112 ,, ...	1	8	0	10
			95 ,, ...	1	4	0	8
		32 ,,	63 to 56 cwt.	1	2	0	6
			50 to 45 ,, ...	1	0	0	5
			42* to 39 ,, ...	0	12	0	5
			32 cwt.	0	10	0	4
			25 ,, ...	0	8	0	4
		24 ,,	50 or 48 cwt.	1	0	0	4
			20 cwt.	0	8	0	3
		18 ,,	42 or 38 cwt.	0	12	0	4
		12 ,,	34 or 33 ,, ...	0	12	0	3
			32 cwt.	0	8	0	2
		9 ,,	28 ,, ...	0	10	0	3
			24 ,, ...	0	8	0	2
	Howitzers ...	8-inch		0	8	0	3

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* Also 32-pr. S.B. B.L. guns.

TABLE F.

Quantities of Paint for Machine Guns.

Nature.	Paint Stone Colour.*	Remarks.
	lb. oz.	
Guns, Maxim, ·303 inch	0 8	For 8 guns (barrel casing only)—one coat each.
,, Nordenfelt, 3-barrel, ·303-in. converted.	1 0	For 8 guns, 16 distributors and 16 feed guides —one coat each.
,, Gardner, 2-barrel, ·303-in. converted	0 12	For 8 guns, 16 cartridge feeders and 16 crank handles—one coat each

* This may be varied to suit local requirements.

57
Gibraltar.
6740

TABLE G.

Table showing the Time and Working Pay allowed for Scraping, Cleaning, and Painting the different natures of Ordnance.

Description.		Scraping* and Cleaning Exterior and Interior.		Painting Exterior and Interior, one Coat.	
		Time for.	Amount.	Time for.	Amount.
		H. M.	s. d.	H. M.	s. d.
Ordnance, B.L.	13·5-inch	60 0	5 0	24 0	3 0
	12-inch	50 0	4 2	20 0	2 6
	10 ,, ...	40 0	3 4	16 0	2 0
	9·2 ,, ...	35 0	2 11	14 0	1 9
	8 ,, ...	25 0	2 1	10 0	1 3
	6 ,, ...	15 0	1 3	6 0	0 9
	6 ,, 30-cwt. howitzer ...	8 0	0 8	1 30	0 2¼
	5 ,, ...	8 0	0 8	3 0	0 4½
	4 ,, ...	5 0	0 5	2 0	0 3
Ordnance, R.B.L.	7-inch	10 0	0 10	2 0	0 3
	40-pr.	5 0	0 5	2 0	0 3
	20 ,, ...	3 0	0 3	1 0	0 1½
	12 and 9-prs.	2 0	0 2	1 0	0 1½
Ordnance, R.M.L.	17·72-inch	60 0	5 0	24 0	3 0
	16 ,, ...	50 0	4 2	20 0	2 6
	12·5 ,, ...	35 0	2 11	14 0	1 9
	12 ,, 35 tons	25 0	2 1	10 0	1 3
	12 ,, 25 ,, ... 11 ,, ...	20 0	1 8	8 0	1 0
	10·4 ,, ...	40 0	3 4	16 0	2 0
	10 ,, ...	18 0	1 6	7 0	0 10½
	9 ,, ...	15 0	1 3	6 0	0 9
	8-inch howitzer 70 cwt.	10 0	0 10	3 0	0 4½
	8-inch howitzer 46 ,, ...	7 0	0 7	2 0	0 3
	7-inch	12 0	1 0	3 0	0 4½

30
Devonport
1405

57
Devonport
7050

* The bores of rifled ordnance will not be scraped.

TABLE G—*continued.*

Gibraltar
6260

Description.			Scraping and Cleaning Exterior and Interior.		Painting Exterior and Interior, one Coat.	
			Time for.	Amount.	Time for.	Amount.
			H. M.	s. d.	H. M.	s. d.
Ordnance, R.M.L.	6·6-in. howitzer		6 0	0 6	1 0	0 1½
	6·3 ,, ,, ...		5 0	0 5	0 45	0 1¼
	80-pr. and 6·6-inch gun ...		10 0	0 10	2 0	0 3
	64-pr.		8 0	0 8	1 30	0 2¼
	40 ,, ...		6 0	0 6	1 0	0 1½
	25 ,, ...		4 0	0 4	1 0	0 1½
	16, 15, 13, and 9-pr.		2 0	0 2	0 30	0 0¾
	7-pr. 150 and 200 lb. ...		1 30	0 1½	0 30	0 0¾
	4-inch howitzer and 2·5-inch		2 0	0 2	0 30	0 0¾
Ordnance, Q.F.	6 ,, ...		17 0	1 5	4 15	0 6½
	4·7-inch		5 0	0 5	2 0	0 3
	12-pr.		3 0	0 3	1 45	0 2¾
	6 ,, ...		2 0	0 2	0 30	0 0¾
	3 ,, ...		1 45	0 1¾	0 30	0 0¾
Ordnance, S.B.	Carronades 32-pr. to 18-pr.		4 0	0 4	0 45	0 1¼
	Guns ...	8-inch	8 0	0 8	1 30	0 2¼
		68-pr.	10 0	0 10	1 30	0 2¼
		32 pr. 63 to 56-cwt. ...	8 0	0 8	1 30	0 2¼
		32 pr. 50 ,, 39† ,, ...	7 0	0 7	1 15	0 2
		32 pr. 32 and 25 ,, ...	6 0	0 6	1 0	0 1½
		24 ,, 50 and 48-cwt.	7 0	0 7	1 15	0 2
		24 ,, 20-cwt.	6 0	0 6	1 0	0 1½
		18 ,,				
		12 ,, 34 or 33 cwt.				
		9 ,, 22 cwt. ...	4 0	0 4	0 45	0 1¼
	Howitzers ...	8-inch				

† Also 32-pr. S.B.B.L. guns.

TABLE H.

Time and Working Pay for Scraping and Cleaning and Painting Machine Guns.

57
Gibraltar
6740

Description.		Scraping and Cleaning.		Painting One Coat.	
		Time.	Amount.	Time.	Amount.
		H. M.	s. d.	H. M.	s. d.
Guns	Maxim, ·303-inch ..	1 0	0 1	0 15	0 0½
	Nordenfelt, 3-barrel, ·303-inch, converted	1 30	0 1½	0 40	0 1
	Gardner, 2-barrel, ·303-inch converted	1 30	0 1½	0 30	0 0¾

TABLE I.

The following Table gives the Quantity of Paint, &c., required for one of each of the following Carriages and Slides, L. for one Coat.

Description.				Paint prepared, magnetic oxide.*		Putty.		Remarks.
				lb.	oz.	lb.	oz.	
Blocks, pivot, No. 31, with radial arms, curbs, and racer				8	0	0	4	For 9-inch R.M.L., 7 ft. parapet "C," Mark III.
Carriages, garrison	B.L.	12-in.		6	0	0	12	
		6-in. V.C.P. Mk. I.		1	8	—		
		5-in. Vavasseur		1	0	—		
	barbette, B.L.	10-in. 9·2-in.		12	0	1	8	
		8-in.		12	0	1	0	
		6-in.		12	0	1	0	
	disappearing, B.L.	13·5-in., Mk. I.		155	0	1	12	
		10-in.†		50	0	1	12	
		9·2-in.†		50	0	1	12	
		6-in.†		30	0	1	8	With shield.
				17	0	1	0	Without shield.
	R.B.L.	7-in. Moncrieff		14	0	1	8	With slide, L.
		40-pr. common		2	0	0	4	¾ gill of boiled linseed oil for coins.
	R.M.L.	17·72-in.		10	0	1	0	
		16-in.		6	8	1	0	Turret.
		12·5-in.	casemate or dwarf, also converted small port	5	8	0	12	With hydraulic buffer.
			casemate or dwarf O.P.	4	12	0	12	Without hydraulic buffer.
			small port, 7-ft. recoil	6	0	0	12	With hydraulic buffers.
			small port, 6-ft. recoil	5	8	0	12	Without hydraulic buffers.
		12-in. 35 tons		4	12	0	12	
		11-in. (and 12-in. 25 tons)		4	0	0	12	
		10·4-in.		7	0	0	12	
		10-in.	casemate, low casemate or dwarf	3	0	0	12	
			small port	4	0	0	12	
			7 ft. parapet "C"	3	12	0	12	
		9-in.	casement or dwarf	2	12	0	8	¾ gill of boiled linseed oil for coins.
			Moncrieff	24	0	4	0	With slide.
			8 ft. parapet	3	0	0	8	
			Mark II.	3	0	0	8	
		High Angle	9-in. Mk. I.	57	0	1	0	Complete with racer.
			9-in. Mk. II.	41	0	1	0	Complete with pivot.
			9-in. & 10-in. Mk. III.	37	0	1	0	Complete with racers.
		7-in.	casemate or dwarf	2	8	0	8	¾ gill of boiled linseed oil for coins.
			Moncrieff	14	0	2	0	With slide, L.

57
York
2891
30
Devonport
1405

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* See footnote * on page 57.

† In hot climates where white paint is used for top surface of shields, as laid down in Regulations for Magazines, etc., 33 lbs. of white paint and 30 lbs. of magnetic oxide will be issued for 10-inch and 9·2-inch, and 10 lbs. of white paint and 24 lbs. of magnetic oxide for 6-inch B.L. mountings.

TABLE I—*continued.*

57
York
2891

...
2891

Description.					Paint prepared, magnetic oxide.*		Putty.		Remarks.
					lb.	oz.	lb.	oz.	
Carriages, garrison, R.M.L.	64-pr. ...	71 cwt. and 64 cwt. common No. 1, 58 cwt. common No. 2			2	0	0	6	¾ gill of boiled linseed oil for coins.
		58 cwt. Moncrieff ...			12	0	1	8	With slide, L.
	sliding, medium	No. 1 (R.B.L. 7-in.)...			3	4	0	8	
		No. 4 (R.B.L. 40-pr.)			3	8	0	8	With hydraulic buffer.
		No. 6 (S.B.B.L. 32-pr.)			3	8	0	8	
		No. 7 (R.M.L. 7-in. 6½ tons 6-ft. parapet)			3	8	0	8	
		No. 8 (R.M.L. 64-pr. 64 cwt. Mark III, 6-ft. parapet)			3	0	0	8	For circular buffer.
		No. 9 (R.M.L. 64-pr. 64-cwt., 5-ft. 6-in. parapet)			3	0	0	8	
		No. 14 (R.M.L. 40-pr.)			3	8	0	4	
Shield for B.L. 5-in. Vavasseur, Mark I ...					2	4	—		
Slides, L.	B.L. ...	12-in.			11	0	1	4	
		6-in. V.C.P. Mk. I, with shield and pivot			12	8	0	4	
		5-in. Vavasseur	Mark I		3	12	—		
			,, II		3	0	—		
			,, III		3	8	—		
	barbette, B.L.	10-in.	Mk. I† ...		19	0	1	0	With pivot block
			,, II & III†		40	0	1	12	
		9·2-in.	,, I† ...		19	0	1	0	
			,, II† ...		40	0	1	12	
		8-in.			19	0	1	0	
		6-in.			21	0	1	3	
	R.M.L. ...	17·72-in.			32	0	1	8	With hydraulic buffer.
		16-in.			58	0	4	0	Turret, with hydraulic buffers.
		12·5-in.	casemate (with traversing gear)		7	12	1	2	With hydraulic buffer.
			casemate (with traversing gear)		7	0	1	2	Without hydraulic buffer.
			dwarf (with traversing gear)		8	12	1	2	With hydraulic buffer and pivot block.
			dwarf (with traversing gear)		8	0	1	2	With pivot block and without hydraulic buffer.
			small port, 7-ft. recoil		7	12	1	2	Without hydraulic buffers.
			small port, 6-ft. recoil		8	4	1	2	With hydraulic buffers.
			7-ft. parapet "C"	converted casemate, Mark III, special converted dwarf "C"	12	0	1	2	
			converted small port		12	4	1	2	With hydraulic buffer.
		12-in. 35 tons, dwarf "C" (with traversing gear)			8	12	1	2	With hydraulic buffer and pivot block.

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* See footnote * on page 57.

† With traversing gear.

TABLE I—*continued.*

Description.					Paint prepared, magnetic oxide.*		Putty.		Remarks.
					lb.	oz.	lb.	oz.	
Slides, L.	R.M.L. ...	11-in. (and 12-in. 25tons)	casemate (with traversing gear)		7	0	1	2	With hydraulic buffer.
			dwarf (with traversing gear)		8	8	1	2	With hydraulic buffer and pivot block.
			7-ft. parapet, "C" (with traversing gear)		12	8	1	4	With hydraulic buffers.
		10·4-in. (with traversing gear)			19	0	1	0	With pivot block.
		10-in.	casemate (with traversing gear)		6	8	1	0	With hydraulic buffer.
			dwarf (with traversing gear)		8	8	1	2	With hydraulic buffer and pivot block.
			small port (with traversing gear)		6	8	1	0	With hydraulic buffer.
			7-ft. parapet "C" (with traversing gear)		12	8	1	4	With hydraulic buffers.
		9-in.	7-ft. parapet "C" (with traversing gear)	Mk. I	11	0	1	4	With hydraulic buffers.
				,, II & III	13	0	1	4	
			8-ft. parapet (with traversing gear)		15	0	1	4	With hydraulic buffer.
			casemate (with traversing gear)		5	12	1	0	With hydraulic buffer.
			dwarf (with traversing gear)		7	10	1	2	With hydraulic buffer and pivot blocks.
		7-in.	casemate ...		3	8	1	0	With hydraulic buffer.
			dwarf ...		4	2	1	0	With hydraulic buffer and pivot blocks.
	medium	Nos. 1 to 3 (R.B.L. 7-in.)			5	0	0	8	
		No. 4 (R.B.L. 40-pr.)			4	0	0	8	
		No. 6 (S.B.B.L. 32-pr.)			4	0	0	8	
		No. 7 (R.M.L. 7-in. 6½ tons)			5	8	0	12	
		No. 8 (R.M.L. 64-pr. 64 cwt. Mark III 6-ft. parapet)			4	0	0	12	With circular buffer and pivot block.
		No. 9 (R.M.L. 64-pr. 64 cwt., 5-ft. 6-in. parapet)			4	0	0	1½	With hydraulic buffer and pivot block.
		No. 10 (R.M.L. 40-pr.)			4	8	0	4	With hydraulic buffer.
Yokes, B.L. 12-in. ...	...	...	...	...	5	8	0	8	

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* See footnote * on page 57.

TABLE J.

The following Table gives the Time and Working Pay for Scraping, Cleaning, and Painting one of each of the following Carriages and Slides, L.

57
Yorks
2891

57
Devonport
1405

Description.				Scraping and Cleaning.				Painting.								Remarks.
								Priming, or first Coat.				Stopping, and second Coat.				
				Time for.		Amount.		Time for.		Amount.		Time for.		Amount.		
				H.	M.	s.	d.	H.	M.	s.	d.	H.	M.	s.	d.	
Blocks, pivot, No. 31, with radial arms, curbs and racer ...				3	0	0	3	4	0	0	6	4	0	0	6	For 9-inch, R.M.L., 7 ft. parapet, "C," Mark III.
Carriages, garrison	B.L. 12-inch			12	0	1	0	8	0	1	0	11	0	1	4½	
	6-inch V.C.P., Mark I...			1	30	0	1½	2	0	0	3	2	0	0	3	
	B.L., 5-inch, Vavasseur			1	0	0	1	1	15	0	1⅞	1	15	0	1⅞	
	B.L. barbette ...	10-inch	Mark I ...	14	0	1	2	10	0	1	3	13	0	1	7½	
			Mark II and III.	14	0	1	2	10	0	1	3	12	0	1	6	
		9·2-inch	Mark I, IA, and IB ...	14	0	1	2	10	0	1	3	13	0	1	7½	
			Mark II ...	14	0	1	2	10	0	1	3	12	0	1	6	
		8-inch		14	0	1	2	10	0	1	3	13	0	1	7½	
		6-inch		14	0	1	2	10	0	1	3	13	0	1	7½	
		13·5-inch Mark I ...		176	0	14	8	120	0	15	0	156	0	19	6	
	B.L. disappearing	10-inch ... ... 9·2-inch... ...		50	0	4	2	43	0	5	4½	48	0	6	0	
		6-inch		42	0	3	6	34	0	4	3	40	0	5	0	With shield.
				28	0	2	4	22	0	2	9	26	0	3	3	Without shield.
	R.B.L.	7-inch Moncrieff		24	0	2	0	21	0	2	7½	23	0	2	10½	
		40-pr. common, No. 2		3	0	0	3	3	0	0	4½	3	0	0	4½	
	R.M.L.	17·72-inch		12	0	1	0	11	0	1	4½	12	0	1	6	
		16-inch (turret)		14	0	1	2	10	0	1	3	12	0	1	6	

Carriages, garrison	R.M.L.	12·5-in.	casemate or dwarf*	13	0	1	1	9	0	1	1½	12	0	1	6	With hydraulic buffer.
			,, ,, ... O.P.	12	0	1	0	8	0	1	0	11	0	1	4½	Without hydraulic buffer.
			small port, 7 ft. recoil	15	0	1	3	10	0	1	3	13	30	1	8¼	With hydraulic buffers.
			small port, 6 ,, ,, ...	14	0	1	2	9	0	1	1½	12	30	1	6¾	Without hydraulic buffers.
		12 ,, 11 ,,	35 tons ... ... (and 12-in. 25 tons)	12	0	1	0	8	0	1	0	11	0	1	4½	
		10·4 ,,	barbette	11	0	0	11	8	0	1	0	10	0	1	3	
		10 ,,	casemate, low ... ... ,, or dwarf	11	0	0	11	7	30	0	11¼	10	0	1	3	
			small port	12	0	1	0	8	0	1	0	11	0	1	4½	
			7 ft. parapet "C"	13	0	1	1	10	0	1	3	12	0	1	6	
		9-inch	casemate or dwarf	10	0	0	10	7	0	0	10	9	0	1	1½	
			Moncrieff	70	0	5	10	50	0	6	3	60	0	7	6	
			Mark II	11	0	0	11	8	0	1	0	10	0	1	3	
		High angle	9-inch, Mark I	36	0	3	0	45	0	5	7½	48	0	6	0	Including racer.
			9-inch, Mark II...	33	0	2	9	40	0	5	0	42	0	5	3	Including pivot.
			9-inch and 10-inch, Mark III. ...	29	0	2	5	36	0	4	6	38	0	4	9	Including racer.
		7-inch	casemate or dwarf	10	0	0	10	7	0	0	10	9	0	1	1½	
			Moncrieff	40	0	3	4	30	0	3	9	36	0	4	6	
		64-pr. ...	71 cwt. and 64 cwt., common, No. 1 ... ... 58 cwt., common, No. 2 ...	3	0	0	3	3	0	0	4½	3	0	0	4½	
			58-cwt. Moncrieff	32	0	2	8	25	0	3	1½	30	0	3	9	
	sliding, medium	No. 1	(R.B.L. 7-inch)	10	0	0	10	7	0	0	10½	9	0	1	1½	
		,, 4	(R.B.L. 40-pr.)	8	0	0	8	5	30	0	8¼	7	0	0	10½	
		,, 6	(S.B. B.L. 32-pr.)	3	30	0	3½	3	30	0	5¼	4	0	0	6	With hydraulic buffer.
		,, 7	(R.M.L. 7-inch 6½ tons, 6 ft. parapet).	9	0	0	9	7	0	0	10½	8	0	1	0	With hydraulic buffer.
		,, 8	(R.M.L. 64-pr. 64 cwt. Mark III gun, 6ft. parapet).	10	0	0	10	7	0	0	10½	9	0	1	1½	For circular buffer.
		,, 9	(R.M.L. 64-pr. 64 cwt., 5 ft. 6 in. parapet).	9	0	0	9	6	0	0	9	8	0	1	0	
		,, 14	(R.M.L. 40-pr.)	5	0	0	5	4	0	0	6	4	30	0	6¾	
Shield for B.L. 5-inch Vavasseur, Mark I				1	0	0	1	1	30	0	2¼	1	30	0	2¼	
Slides, L.			12-inch	22	0	1	10	15	0	1	10½	20	0	2	6	
			6-inch V.C.P., Mark I, with shield and pivot	10	30	0	10½	12	0	1	6	13	0	1	7½	
		B.L. 5-in., Vavasseurs	Mark I	3	0	0	3	3	30	0	5¼	3	30	0	5¼	
			,, II	3	30	0	3½	4	0	0	6	4	0	0	6	
			,, III... ...	3	45	0	3¾	4	30	0	6¾	4	30	0	6¾	

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* Also converted small port.

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York
2891

TABLE J—*continued*.

Description.				Scraping and Cleaning. Time for.	Scraping and Cleaning. Amount.	Painting. Priming, or first Coat. Time for.	Painting. Priming, or first Coat. Amount.	Painting. Stopping, and second Coat. Time for.	Painting. Stopping, and second Coat. Amount.	Remarks.
				H. M	s. d.	H. M.	s. d.	H. M.	s. d.	
Slides, L.	B.L., barbette	10-inch	Mark I ... with traversing gear	20 0	1 8	15 0	1 10½	18 0	2 3	With pivot block.
		,,	,, II & III with traversing gear	48 0	4 0	40 0	5 0	44 0	5 6	With pivot block.
		9·2-inch	,, I ... ... with traversing gear	20 0	1 8	15 0	1 10½	18 0	2 3	With pivot block.
		,,	,, II... ... with traversing gear ...	48 0	4 0	40 0	5 0	44 0	5 6	With pivot block.
		8-inch (with traversing gear)		20 0	1 8	15 0	1 10½	18 0	2 3	
		6-inch ,, ,, ,, ...		24 0	2 0	17 0	2 1½	20 0	2 6	
	R.M.L.	17·72-inch		36 0	3 0	33 0	4 1½	36 0	4 6	
		16-inch (turret)		154 0	12 10	119 0	14 10½	139 0	17 4½	With hydraulic buffer.
		12·5-in.	casemate (with traversing gear)	16 0	1 4	10 0	1 3	15 0	1 10½	With hydraulic buffer.
			,, (with traversing gear)	15 0	1 3	10 0	1 3	13 30	1 8¼	Without hydraulic buffer.
			dwarf ... (with traversing gear)	18 0	1 6	11 0	1 4½	16 0	2 0	With hydraulic buffer and pivot block.
			,, (with traversing gear)	17 0	1 5	10 0	1 3	15 0	1 10½	With pivot block, but without hydraulic buffer.
			small port, 7 feet recoil (with traversing gear)	17 0	1 5	11 0	1 4½	16 0	2 0	Without hydraulic buffers.
			small port, 6 feet recoil (with traversing gear)	18 0	1 6	12 0	1 6	17 0	2 1½	With hydraulic buffers.
			7-ft. parapet "C" converted casemate, Mark III, special dwarf "C"	19 0	1 7	16 0	2 0	19 0	2 4½	
			converted small port	19 0	1 7	16 0	2 0	19 0	2 4½	With hydraulic buffer.
		12-inch 35 tons, dwarf "C" (with traversing gear)		18 0	1 6	11 0	1 4½	16 0	2 0	With hydraulic buffer and pivot block.

Slides, L.	R.M.L.	11-inch and 12 inch 25 ton ...	casemate ...	(with traversing gear)	16 0	1 4	10 0	1 3	15 0	1 10½	With hydraulic buffer.
			dwarf ...		18 0	1 6	11 0	1 4½	16 0	2 0	With hydraulic buffer and pivot block.
			7 ft. parapet, "C"		19 0	1 7	16 0	2 0	19 0	2 4½	With hydraulic buffer.
		10·4-inch barbette... ...			20 0	1 8	15 0	1 10½	18 0	2 3	With pivot block.
		10-inch	casemate ...		13 0	1 1	9 0	1 1½	12 0	1 6	With hydraulic buffer.
			dwarf ...		14 0	1 2	10 0	1 3	13 0	1 7½	With hydraulic buffer and pivot block.
			small port ...		15 0	1 3	10 0	1 3	13 30	1 8¼	With hydraulic buffer.
			7 ft. parapet "C"		19 0	1 7	16 0	2 0	19 0	2 4½	
		9-inch	casemate ...		12 0	1 0	8 0	1 0	11 0	1 4½	With hydraulic buffer.
			dwarf		14 0	1 2	10 0	1 3	13 0	1 7½	With hydraulic buffer and pivot block.
			7 ft. parapet "C" Mk. I		17 0	1 5	14 0	1 9	17 0	2 1½	
			7 ft. parapet "C" „ II & III		19 0	1 7	16 0	2 0	19 0	2 4½	
		7-inch	casemate		12 0	1 0	8 0	1 0	11 0	1 4½	With hydraulic buffer.
			dwarf		12 0	1 0	9 0	1 1½	12 0	1 6	With hydraulic buffer and pivot block.
	medium	Nos. 1 to 3 (R.B.L. 7-inch)			11 0	0 11	8 0	1 0	10 0	1 3	
		No. 4 (R.B.L. 40-pr.)			8 30	0 8½	6 0	0 9	7 30	0 11¼	
		„ 6 (S.B. B.L. 32-pr.)			3 0	0 3	3 0	0 4½	3 30	0 5¼	
		„ 7 (R.M.L. 7-inch 6½ tons)			12 0	1 0	10 0	1 3	11 0	1 4½	
		„ 8 (R.M.L. 64-pr. 64 cwt. Mk. III gun, 6 ft. parapet)			12 0	1 0	9 0	1 1½	11 0	1 4½	With circular buffer and pivot block.
		„ 9 (R.M.L. 64-pr. 64 cwt., 5 ft. 6 in. parapet)			11 0	0 11	8 0	1 0	10 0	1 3	With hydraulic buffer and pivot block.
		„ 10 (R.M.L. 40-pr.)			6 0	0 6	5 0	0 7½	5 30	0 8¼	With hydraulic buffer.
Yokes, B.J. 12-inch					9 0	0 9	8 0	1 0	10 0	1 3	

TABLE K.

Quantity of Paint, &c., required for Painting one of each of the following Articles with one Coat.

Description.	Paint prepared.								Putty.		Remarks.
	Lead Colour.		Magnetic Oxide.		Stone Colour.		Red.				
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Section, No. 2.											
Buckets, water, G.S., leather	—	4	—	—	—	—	—	—	—	—	
Drivers, pile, Swiss	—	8	—	—	—	—	—	—	0	1	
Posts, picket, 8 feet...	0	12	—	—	—	—	—	—	—	—	
Posts, picket, 6 ,, ...	0	4	—	—	—	—	—	—	—	—	
Posts, picket, 5 ,, ...											
Woolwich Section, No. 4.											
Carts, low, projectile	6	0	—	—	—	—	—	—	0	10	
Carts, shot	12	0	—	—	—	—	—	—	1	8	
Carts, sling	9	8	—	—	—	—	—	—	1	2	
Carts, trench	—	—	—	—	—	—	3	12	0	12	
Drugs ... gun, 25 tons	21	8	—	—	—	—	—	—	2	4	With brake and movable bolster.
Drugs ... gun, 5 ,, ...	7	8	0	12	—	—	—	—	1	0	
Drugs ... large	8	8	0	12	—	—	—	—	1	0	
Drugs ... medium	4	0	0	6	—	—	—	—	0	8	
Drugs ... small	3	0	0	6	—	—	—	—	0	8	
Limbers, sling wagon, 12 tons	3	8	—	—	—	—	—	—	0	12	
Limbers, sling wagon, 7 ,, ...	2	8	—	—	—	—	—	—	0	4	
Limbers, sling wagon, 6 ,, ...	4	8	—	—	—	—	—	—	0	8	
Wagons, sling (without limber) 12 tons	10	0	—	—	—	—	—	—	1	8	
Wagons, sling (without limber) 7 ,, ...	6	0	—	—	—	—	—	—	0	8	
Wagons, sling (without limber) 6 ,, ...	10	8	—	—	—	—	—	—	1	8	

Woolwich Section, No. 10.											
Apparatus, lifting guns, hydraulic	—	—	0	8	—	—	—	—	—	—	
Apparatus, lifting guns, *Hurst* pattern	21	0	—	—	—	—	—	—	1	8	
Crabs, hoisting guns 50 tons	5	8	4	8	—	—	—	—	0	12	
Crabs, hoisting guns 25 ,, ...	4	0	3	0	—	—	—	—	0	12	
Frames cover, ordnance, large (16½ ft. × 8 ft.)	1	12	—	--	—	—	—	—	0	4	
Frames iron, roller one horse	4	8	2	0	—	—	—	—	0	8	
Frames iron, roller two ,, ...	6	0	2	12	—	—	—	—	0	13	
Frames store, hydraulic jack	—	—	0	12	—	—	—	—	—	—	
Jacks, lifting ... hydraulic, G.S. 30 tons	—	—	0	6	—	—	—	—	—	—	
Jacks, lifting ... hydraulic, G.S. 20 ,, ...	—	—	0	4	—	—	—	—	—	—	
Jacks, lifting ... hydraulic, G.S. 10 ,, ...	—	—	0	4	—	—	—	—	—	—	
Jacks, lifting ... hydraulic, Tangye's 22½ ,, ...	—	—	0	4	—	—	—	—	—	—	
Jacks, lifting ... hydraulic, Tangye's 15 ,, ...	—	—	0	4	—	—	—	—	—	—	
Jacks, lifting ... hydraulic, Tangye's 7½ ,, ...	—	—	0	4	—	—	—	—	—	—	
Jacks, lifting ... screw, Clerk's	0	4	—	—	—	—	—	—	—	—	
Woolwich Section, No. 20.											
Cases, powder, metal-lined, whole	—	—	—	—	7	8	—	—	1	0	Per 10 cases.

Description.	Paint prepared.				Putty.		Remarks.
	Lead Colour.		Magnetic Oxide.				
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Section, No. 12.							
Spars, steel, sheer length 45 feet, mean circumference 35¼ inches (two to a set) ... ... set	—	—	14	0	—	—	
Shoes for above, 2 feet 6 inches square							
Timber, spars for sheers, 70 feet (2 to a set) ... . sets	3	8	—	—	3	8	

TABLE K—*continued.*

Description.	Paint prepared. Lead Colour.*		Paint prepared. Magnetic Oxide.*		Putty.		Remarks.
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Section, No. 13.							
Bars, splinter, limber, field, R.B.L., 20-pr.	0	6	—	—	0	1	¼ gill of raw linseed oil for side arms to each carriage.
Carriages, field (without limber) B.L. 15-pr.	5	12	—	—	0	8	
Carriages, field (without limber) B.L. 12 ,,							
Carriages, field (without limber) R.B.L. 20 ,,	7	12	—	—	0	12	
Carriages, field (without limber) R.B.L. 12 ,,	7	4	—	—	0	12	
Carriages, field (without limber) R.B.L. 9 ,,	6	8	—	—	0	12	
Carriages, field (without limber) R.M.L. 16 ,,	5	8	—	—	0	8	
Carriages, field (without limber) R.M.L. 13 ,,	5	4	—	—	0	8	
Carriages, field (without limber) R.M.L. 9 ,,	5	8	—	—	0	8	
Carriages, field (without limber) R.M.L. 7 ,, 200-lbs. Colonial	4	0	—	—	0	8	
Carriages, field (without limber) R.M.L. 2·5-inch	2	8	—	—	0	4	
Carriages, field machine gun, Infantry Nordenfelt, 3-barrel, also Gardner, 2-barrel	6	0	—	—	0	6	
Carriages, field machine gun, Infantry Maxim, ·303-inch	3	8	—	—	0	4	¼ gill of raw linseed oil for side arms to each carriage.
Carriages, Q.F. 3-pr. travelling	4	8	—	—	0	4	
Limbers field B.L. 15-pr.	5	8	—	—	0	8	
Limbers field B.L. 12 ,,							
Limbers field R.B.L. 20 ,,	6	8	—	—	0	12	
Limbers field R.B.L. 12 ,,							
Limbers field R.B.L. 9 ,,							
Limbers field R.M.L. 16 ,,	6	4	—	—	0	12	
Limbers field R.M.L. 13 ,, †	6	8	—	—	0	12	
Limbers field R.M.L. 9 ,,	6	4	—	—	0	12	
Limbers field R.M.L. 7 ,, 200-lbs. Colonial	6	0	—	—	0	8	
Limbers field R.M.L. 2·5-inch	2	12	—	—	0	4	
Limbers Q.F., 3-pr. travelling	5	4	—	—	0	6	
Limbers wagon forge, R.A. Mark I and I**	6	4	—	—	0	12	
Limbers wagon forge, R.A. ,, II and II*							
Limbers wagon forge, R.A. ,, III*	5	8	—	—	0	8	
Limbers wagon store, R.A. ,, I and I*	6	4	—	—	0	12	
Limbers wagon store, R.A. ,, II*	5	8	—	—	0	8	

57 Gib. 6740	**Poles**, draught, wagons, and limbers	0	5	—	—	0	1	Also 1 lb. stone colour for 8 shields (front surface stone colour, rear surface lead) one coat each.
	Shields, for Maxim machine guns...	1	0	—	—	—	—	
Wagons	ammunition and store, R.A.	16	0	—	—	2	0	
	ammunition (without limbers) B.L. 15-pr. 12 ,,	6	8	—	—	0	8	
	R.B.L. 20 ,, 12 ,, 9 ,,	9	4	—	—	1	0	
	R.M.L. 16 ,,	7	12	—	—	0	12	
	13 ,, †	7	8	—	—	0	12	
	9 ,,	7	12	—	—	0	12	
	7 ,, 200 lbs. Colonial	7	0	—	—	0	12	
	Artillery	15	0	—	—	2	0	
	forge, R.A. Mark I	7	4	—	—	0	12	
	,, I* ,, II	8	12	—	—	0	12	
	,, III	8	8	—	—	1	4	
	store, R.A. ,, I	7	12	—	—	0	12	
	,, II	8	8	—	—	1	0	
	Woolwich Section, No. 14.							
Axletrees, transporting	bed, howitzer, R.M.L.	3	12	0	4	0	6	Including the wheels
	slides, L, R.M.L. 11-inch (also 12-inch 25 tons) 10-inch 9 ,, 7 ,,	4	0	—	—	0	6	,, ,,
	slides, L, medium, wood	2	8	—	—	0	4	,, ,,
Barrows, projectile ...	Nos. 1 to 6	—	—	0	8	—	—	
	Nos. 10 and 11...	0	12	—	—	0	2	
	road	1	8	—	—	0	1	
	shingle ...	2	0	—	—	0	4	
Bars, splinter, limber, siege, wood ...		0	6	—	—	0	1	
Beds, howitzer, R.M.L....		—	—	3	12	0	4	
Buckets, sponge, garrison		0	4	—	—	—	—	
Capstans, crab		4	0	—	—	0	8	
Carriages, garrison	R.B.L. 40-pr., common wood	5	0	0	8	0	12	
	converted non-recoil	6	4	0	8	0	12	

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* See foot note * page 57.

† 6 ozs. lamp black paint in addition for trays.

TABLE K—*continued*.

Description.	Paint prepared.				Putty.		Remarks.
	Lead Colour.*		Magnetic Oxide.*				
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Section, No. 14—continued.							
Carriages, garrison ... R.M.L., 64-pr., 58-cwt., depression, iron ...	—	—	2	0	0	6	
S.B. ... 10-inch howitzer dwarf ...	5	0	—	—	0	12	
rear chock ...	5	0	0	4	0	12	
8-inch ... 65-cwt. common... ...	5	0	0	8	0	12	
65, 60, and 54-cwt., rear chock ...	5	0	0	4	0	12	
54-cwt., dwarf ...	5	0	—	—	0	12	
howitzer dwarf ...	4	4	—	—	0	12	
rear chock ...	5	0	0	4	0	12	
32-pr. ... 63-cwt. ... common ...	5	0	0	8	0	12	
dwarf ...	5	0	—	—	0	12	
58 or 56-cwt., common, wood ...	5	0	0	8	0	12	
56-cwt., common, C iron ...	—	—	2	0	—	—	
50 or 45-cwt., common... ...	5	0	0	8	0	12	
50-cwt., dwarf ...	5	0	—	—	0	12	
24-pr., 50-cwt. common iron... ...	—	—	1	12	—	—	
wood ...	5	0	0	8	0	12	
dwarf ...	5	0	—	—	0	12	
18-pr., 42 cwt. common iron ...	—	—	1	12	—	—	
wood ...	4	4	0	8	0	12	
dwarf ...	4	4	—	—	0	12	
12-pr., 34 cwt. ...	—	—	1	8	—	—	
9 ,, 28 ,, ...							
6 ,, 17 ,, ...	—	—	1	4	—	—	
sliding, medium No. 2 ...	4	8	—	—	0	4	
,, 3 ...							
,, 10 ...							
,, 11 ...							
,, 12 ...							
,, 13 ...							
,, 15 ...	6	12	—	—	1	0	

	Carriages, garrison, sliding, medium, No. 16	6	12	—	—	1	0	
	,, ,, ,, No. 17							
	,, ,, ,, No. 18	6	0	—	—	1	0	
	,, ,, ,, No. 19	4	8	—	—	1	0	
	,, ,, ,, No. 20							
	,, ,, ,, No. 21	6	12	—	—	1	0	
	,, ,, ,, No. 22							
	,, ,, ,, No. 23	5	0	—	—	0	12	
57	,, ,, ,, No. 24							
Yorks	,, ,, ,, No. 25							
2891	,, ,, ,, No. 27 (Mark I)...	—	—	2	4	—	—	
	,, ,, ,, No. 28 (,,)...	—	—	2	8	—	—	
57 Gibraltar 6678	**Carriages,** garrison, Q.F., 6-inch, with shield	—	—	8	8	—	—	
	,, ,, 4·7-inch, with shield and pivot plate	—	—	7	0	0	4	
	,, ,, 12-pr., with shield and pedestal	—	—	5	0	—	—	
57	,, ,, recoil, 6-pr.	—	—	1	12	—	—	
I. of Wight 1655	,, ,, recoil, 3-pr., Hotchkiss, with shield and pedestal	—	—	2	12	—	—	
57 Devonport 7050	**Carriages,** siege (without limber), B.L., 6-inch, 30-cwt., howitzer	6	12	—	—	—	12	
	,, R.B.L. 40-pr., 6-ft. parapet	9	0	—	—	0	12	
	,, R.B.L. 40-pr., wood	11	12	—	—	1	8	
	,, R.M.L., 8-inch, 70 cwt. howitzer	8	12	—	—	1	0	
	,, R.M.L., 8 ,, 46 ,, ,,							
	,, R.M.L., 6·6 ,, gun	8	4	—	—	1	0	
	,, R.M.L., 6·6 ,, howitzer							
	,, R.M.L., 6·3 ,, ,,	7	4	—	—	1	0	
	,, R.M.L., 40-pr., with top over bank	9	12	—	—	1	0	
	,, R.M.L., 25 ,, ,, ,,	7	0	—	—	0	12	
	,, S.B., 32 ,, 50 cwt.	15	8	—	—	2	0	¼ gill of raw lirseed oil for side arms to each carriage.
	,, S.B., 24 ,, 50 ,,	15	0	—	—	2	0	
57	,, S.B., 18 ,,	17	0	—	—	2	0	
Devonport 7050	**Carriage,** siege top, B.L., 6-inch 30-cwt., howitzer	1	8	—	—	0	4	
	Carriages, travelling (without limber), B.L., 5-inch 6 ft. parapet	8	12	—	—	0	12	
	,, ,, B.L., 4 ,, ,,							
	Carriages, transporting guns up inclines	—	—	6	0	0	12	For 12·5-inch guns.
	Chain, ammunition, lift	—	—	20	0	0	8	
	Cone, Q.F., recoil, 6-pr., for recoil carriages for Hotchkiss and Nordenfelt 6-pr., Q.F. guns	—	—	1	4	—	—	
	Gear for landing heavy guns at sea forts, chain	—	—	—	—	—	—	See page •
	,, ,, remaining gear	14	0	80	0	—	—	
	Gear, loading, and apparatus washing out, 10·4-in. R.M.L	—	—	5	0	0	8	

* See foot note * page 57.

TABLE K—*continued.*

	Description.	Paint prepared. Lead Colour.* lbs.	Paint prepared. Lead Colour.* ozs.	Paint prepared. Magnetic Oxide.* lbs.	Paint prepared. Magnetic Oxide.* ozs.	Putty. lbs.	Putty. ozs.	Remarks.
	Woolwich Section, No. 14—continued.							
	Gyns Gibraltar...	5	0	0	4	—	—	With tackle and iron trucks.
	Gyns triangle, with appurtenances, heavy ... hydraulic	0	8	4	0	0	4	
	Gyns triangle, with appurtenances, heavy ... tubular	1	8	4	0	0	8	
	Gyns triangle, with appurtenances, heavy ... wood	8	8	—	—	1	12	
	Gyns triangle, with appurtenances, light ... tubular	1	8	3	8	0	8	
	Gyns triangle, with appurtenances, light ... wood	8	0	—	—	1	12	
	Gyns triangle, with appurtenances, 16 feet	7	8	—	—	1	8	
57 Devonport 7050	**Limbers** field, R.M.L., 25-pr.	6	4	—	—	0	12	
	Limbers siege B.L., 6-in., 30-cwt., howitzer	5	12	—	—	0	8	
	Limbers siege R.B.L., 40-pr. iron ... wood	5	8	—	—	0	8	
	Limbers siege R.M.L. 8-in., 70-cwt. howitzer 8 „ 46 „ „ 6·6 „ gun 6·6 „ howitzer 6·3 „ howitzer ... 40-pr.	5	12	—	—	0	8	
	Limbers transporting bed, howitzer, R.M.L.	6	0	—	—	0	8	
	Limbers transporting slide, L. ... iron ...	5	0	—	—	0	8	
	Limbers transporting slide, L. ... medium	2	8	—	—	0	4	
	Limbers travelling, B.L., 5-in. and 4-in., 6-feet parapet ...	5	12	—	—	0	8	
57	**Magazines,** portable	2	12	—	—	0	4	
Gibraltar 6678	**Pedestal,** Q.F., 6-in., Mark I ...	—	—	3	0	—	—	
	Platforms ... ground slide L, medium, No. 15	9	0	—	—	1	8	
	Platforms ... ground R.M.L. howitzer beds ...	10	0	—	—	4	0	
		7	0	—	—	2	0	When fixed in position.
	Platforms ... siege Clerk's	14	4	—	—	2	0	
	Platforms ... siege double-decked, "C" pivot (complete with pivot plates, &c.)	—	—	3	0	—	—	
57 Malta 1300	**Pump,** air, double, carriage, garrison, H.P.	—	—	1	0	—	—	
	Pump, gyn, hydraulic ...	—	—	1	0	—	—	

* *See* footnote * page 57.

Description.	Paint prepared.								Putty.		Remarks.
	Lead Colour.		Magnetic Oxide.		Stone Colour.		Red.				
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Section, No. 14—continued.											
Sabots, Larrow, projectile...	1	4	—	—	—	—	—	—	—	—	For 10 sabots.
Saddles, Q.F., 6-pr., for recoil carriages for Hotchkiss and Nordenfelt 6 pr., Q.F. guns	—	—	0	4	—	—	—	—	—	—	
Shafts (single)	0	4	—	—	—	—	—	—	0	1	
Shafts (framed)	0	8	—	—	—	—	—	—	0	1	
Sleighs, gun, 12 tons to 38 tons, or 12 tons to 25 tons	18	0	—	—	—	—	—	—	2	4	
Slides, L., medium No. 11, 12, 13	11	8	—	—	—	—	—	—	1	0	
Slides, L., medium No. 14	14	8	—	—	—	—	—	—	1	8	
Slides, L., medium No. 15	9	0	—	—	—	—	—	—	1	0	
Slides, L., medium No. 16, 17, 18	16	0	—	—	—	—	—	—	1	12	
Slides, L., medium No. 19	11	8	—	—	—	—	—	—	1	0	
Slides, L., medium No. 23 (Mark I)	—	—	3	4	—	—	—	—	—	—	
Slides, L., medium No. 24 (,,)	—	—	3	8	—	—	—	—	—	—	
Stages, loading	3	8	0	4	—	—	—	—	0	2	
Swingletrees	0	2	—	—	—	—	—	—	—	—	
Trolleys loading, R.M.L. 17·72-inch	2	12	—	—	—	—	—	—	0	2	
Trolleys loading, R.M.L. high angle, 9-inch ...	—	—	0	12	—	—	—	—	—	—	
Trolleys shell, R.M.L. 17·72-inch	0	12	—	—	—	—	—	—	—	—	
Trucks, ballast, 4 ft. 8½ inches gauge	10	0	5	8	—	—	—	—	3	0	
Turntables, R.M.L. 12·5-inch gun	—	—	—	—	—	—	75	0	—	—	
Turntables, R.M.L. 10-inch gun	—	—	—	—	—	—	65	0	—	—	
Wagons, ammunition (without limbers) R.B.L., 40-pr.	9	4	—	—	—	—	—	—	1	4	
Wagons, ammunition (without limbers) R.M.L. 40-pr	8	4	—	—	—	—	—	—	1	0	
Wagons, ammunition (without limbers) R.M.L. 25 ,, ...	7	12	—	—	—	—	—	—	0	12	

57
Portsmouth
3582

75
York
2891

TABLE K—*continued.*

Description.	Paint prepared.								Putty.		Remarks.
	Lead Colour.		Magnetic Oxide.		Stone Colour.		Red.				
Woolwich Section, No. 14—continued.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Wagons, platform { gun, R.M.L. 6·6-inch	15	0	—	—	—	—	—	—	1	8	
Wagons, platform { gyns...	18	0	—	—	—	—	—	—	2	0	
Wheels { 1st class (5 feet)	1	14	—	—	—	—	—	—	0	3	
Wheels { 2nd ,, { (5 feet)	1	8	—	—	—	—	—	—	0	2	
Wheels { 2nd ,, { (4 ,,)	1	3	—	—	—	—	—	—	0	1	
Wheels { 2nd ,, { (3 ,, 4 inches and 3 feet 6 inches)	1	0	—	—	—	—	—	—	0	1	
Not in Vocabulary.											
Spouting, shell (with trestles) per length of 12 feet.	4	0	—	—	—	—	—	—	0	8	
Engines, 17·72-inch gun	—	—	12	0	—	—	—	—	—	—	
Tanks, for engine, 17·72-in. gun	—	—	10	0	—	—	—	—	—	—	

Description.	Paint prepared.				Putty.		Remarks.
	Lead Colour.		Magnetic Oxide.				
Woolwich Section, No. 15.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Barrows ... magazine ... double	1	4	—	—	0	2	
Barrows ... magazine ... single	1	0	—	—	0	2	
Barrows ... magazine lamps	0	8	—	—	0	2	
Barrows ... powder...	1	8	—	—	0	4	
Beds, R.M.L. 7-pr., 200 lbs.	1	12	—	—	0	4	
Carriages, mountain, R.M.L. 4-inch howitzer	2	12	—	—	0	4	¼ gill of raw linseed oil for side arms to each carriage.
Carriages, mountain, R.M.L. 15-pr.	2	8	—	—	0	4	
Carriages, mountain, R.M.L. 7 ,, 200 lbs. (without limber)	1	8	—		0	4	
Carriages, mountain, R.M.L. 7 ,, 150 ,, ,, ...	2	4	—	—	0	4	
Carriages, mountain, R.M.L. 2·5-inch...	2	8	—	—	0	4	
Limbers, mountain, R.M.L., 7-pr. 200 lbs.	2	8	—	—	0	2	
Woolwich Section, No. 16.							
Carriages, parapet, machine gun	0	8	—	—	—	—	For body of carriage only.†
57 / Ceylon / 1405 **Ordnance,** Q.F. Hotchkiss ... 6-pr. Pivot and socket ... ... Stand elastic frame ... ... Shield	—	—	3	0	—	—	
Ordnance, Q.F. Hotchkiss ... 3-pr. Pivot ... ... Stand, elastic frame... ... Shield	—	—	2	8	—	—	
Skidding, iron (10 feet)	—	—	2	0	—	—	
Skidding, iron (4 ,,)	—	—	1	0	—	—	

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† The wheels of the parapet carriage are varnished, for which the following materials are allowed :—

Paper, glass, No. 1½, sheets	2	for 4 mountings or less.
Varnish, oak, pints...	½	

TABLE K—*continued.*

Description.	Paint prepared.				Putty.		Remarks.
	Lead Colour.		Magnetic Oxide.				
	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	
Woolwich Section, No. 18.							
Cases, cartridge { Nos. 1, 2, and 3	3	8	—	—	—	—	For 10 cases.
Cases, cartridge { ,, 4, 5, 6, 7, and 25	2	8	—	—	—	—	
Woolwich Section, No. 19.							
Perches, wagon, ammunition, R.B.L., 9-pr.	0	6	—	—	0	1	
Scotches, recoil	1	0	—	—	0	1	
Woolwich Section, No. 24.							
Bearers, shot, R.B.L., R.M.L., or S.B.	—	—	0	4	—	—	
Garlands { rectangular { 13-inch, 4 ft. 2½ in. 4 lengths	—	—	0	8	—	—	
8 ,, 2 ,, 8 ,, ,,	—	—	0	4	—	—	
32-pr. { 4 ,, 2 ,, ,,	—	—	0	8	—	—	
32-pr. { 3 ,, 8 ,, ,,	—	—	0	7	—	—	
32-pr. { 2 ,, 1 ,, ,,	—	—	0	4	—	—	
24 ,, 1 ,, 11 ,, ,,	—	—	0	3	—	—	
12 ,, 1 ,, 6½ ,, ,,	—	—	0	2	—	—	
triangular, 8-inch 3 lengths	—	—	0	8	—	—	
Woolwich Section, No. 27.							
Packsaddlery, artillery, { 7-pr. (200 and 150 lbs.)	—	—	0	4	—	—	And 2 oz. of copal varnish.
cradles, R.M.L. { 2·5 inch	—	8	—	—	0	1	

TABLE L.

Time and Working Pay allowed for Scraping, Cleaning, and Painting the following Articles.

Description.	Scraping and Cleaning.		Painting.			
			Priming, or first Coat.		Stopping, and second Coat.	
	Time.	Amount.	Time.	Amount.	Time.	Amount.
	H. M.	*s.* *d.*	H. M.	*s.* *d.*	H. M.	*s.* *d.*
Woolwich Section, No. 2.						
Buckets, water, G.S., leather	0 15	0 0¼	0 15	0 0½	0 15	0 0½
Drivers, pile, Swiss	0 30	0 0½	0 40	0 1	0 50	0 1¼
Mauls, G.S. Mark III. (for heads only, per dozen, one coat)	...	...	1 45	0 2½	...	...
Posts, picket, 8 feet	0 15	0 0¼	0 30	0 0¾	0 30	0 0¾
Posts, picket, 6 ,,						
Posts, picket, 5 ,,	0 10	0 0¼	0 30	0 0¾	0 30	0 0¾
Woolwich Section, No. 4.						
Carts, low, projectile	3 0	0 3	3 0	0 4½	4 0	0 6
Carts, shot	5 0	0 5	5 0	0 7½	8 0	1 0
Carts, sling	6 0	0 6	5 0	0 7½	8 0	1 0
Carts, trench	3 0	0 3	3 0	0 4½	4 0	0 6
Drugs, gun, 25 tons	8 0	0 8	7 0	0 10	9 0	1 1½
Drugs, gun, 5 ,,	6 0	0 6	6 0	0 9	8 0	1 0
Drugs, large						
Drugs, medium	4 0	0 4	4 0	0 6	6 0	0 9
Drugs, small	3 0	0 3	3 0	0 4½	4 0	0 6
Limbers, sling wagon, 12 tons	3 0	0 3	3 0	0 4½	3 30	0 5¼
Limbers, sling wagon, 7 ,,						
Limbers, sling wagon, 6 ,,	3 0	0 3	2 30	0 3¾	3 30	0 5¼
Wagons, sling (without limber), 12 tons	9 0	0 9	7 0	0 10½	10 30	1 3¾
Wagons, sling (without limber), 7 ,,	7 0	0 7	7 0	0 10½	8 30	1 0¾
Wagons, sling (without limber), 6 ,,	7 0	0 7	5 30	0 8¼	8 30	1 0¼

TABLE L—*continued.*

Description.	Scraping and Cleaning.		Painting.			
			Priming, or first Coat.		Stopping, and second Coat.	
	Time.	Amount.	Time.	Amount.	Time.	Amount.
	H. M.	s. d.	H. M.	s. d.	H. M.	s. d.
Woolwich Section, No. 10.						
Apparatus, lifting guns, hydraulic	0 45	0 0¾	0 40	0 1	0 40	0 1
Apparatus, lifting guns, Hurst pattern	16 0	1 4	12 0	1 6	18 0	2 3
Crabs, hoisting guns, 50 tons	10 0	0 10	6 0	0 9	8 0	1 0
Crabs, hoisting guns, 25 ,,	8 0	0 8	4 0	0 6	6 0	0 9
Frames ... cover, ordnance, large (16½ ft. × 8 ft.)	2 30	0 2½	2 0	0 3	2 15	0 3¼
Frames ... iron roller ... one-horse	7 0	0 7	5 0	0 7½	7 0	0 10½
Frames ... iron roller ... two ,,	8 30	0 8½	6 15	0 9½	8 30	1 0¾
Frames ... store, hydraulic jack	1 30	0 1½	1 15	0 1¾	1 30	0 2¼
Jacks, lifting, hydraulic, general service, 30 tons	0 30	0 0½	0 30	0 0¾	0 30	0 0¾
Jacks, lifting, hydraulic, general service, 20 ,,	0 20	0 0½	0 20	0 0½	0 20	0 0½
Jacks, lifting, hydraulic, general service, 10 ,,	0 20	0 0½	0 20	0 0½	0 20	0 0½
Jacks, lifting, hydraulic, Tangye's, 22½ tons	0 30	0 0½	0 20	0 0½	0 20	0 0½
Jacks, lifting, hydraulic, Tangye's, 15 ,,	0 30	0 0½	0 30	0 0¾	0 30	0 0¾
Jacks, lifting, hydraulic, Tangye's, 7½ ,,						
Jacks, lifting, screw, Clerk's						
Woolwich Section, No. 12.						
Spars, steel sheers, length 45 feet, mean circumference 35¼ inches (2 to a set) ... set	12 0	1 0	10 30	1 3¾	10 30	1 5¾
Shoes for ditto, 2 ft. 6 in. square						
Timber, spars for sheers, 70 ft. (2 to a set) ... set	10 0	0 10	13 0	1 7½	16 0	2 0
Woolwich Section, No. 13.						
Bars, splinter, limber, field, R.B.L. 20-pr.	0 15	0 0¼	0 10	0 0¼	0 15	0 0¾
Carriages, field (without limber, B.L.) 15-pr.	7 30	0 7½	5 0	0 7½	6 30	0 9¾
Carriages, field (without limber, B.L.) 12 ,,						

Carriages	field (without limber)	R.B.L.	20 ,,	6 30	0 6½	4 0	0 6	5 0	0 7½
			12 ,,						
			9 ,,						
		R.M.L.	16 ,,	6 45	0 6¾	4 0	0 6	5 15	0 7⅞
			13 ,,						
			9 ,,						
			7 ,, 200-lbs. Colonial	4 0	0 4	3 0	0 4½	4 0	0 6
			2·5-inch	3 0	0 3	3 0	0 4½	4 0	0 6
	field, machine gun, Infantry		Nordenfelt, 3-barrel, also Gardner, 2-barrel	5 0	0 5	6 0	0 9	7 0	0 10½
			Maxim, ·303-inch	3 0	0 3	3 30	0 5¼	4 0	0 6
	Q.F., 3-pr. travelling			4 0	0 4	4 30	0 6¾	5 0	0 7½
Limbers	field	B.L.	15-pr.	7 30	0 7½	5 0	0 7½	6 30	0 9¾
			12 ,,						
		R.B.L.	20 ,,	7 30	0 7½	4 30	0 6¾	6 0	0 9
			12 ,,						
			9 ,,						
		R.M.L.	16 ,,	7 15	0 7¼	4 30	0 6¾	5 45	0 8⅝
			13 ,,	7 15	0 7¼	4 30	0 6¾	6 45	0 10⅛
			9 ,,	7 15	0 7¼	4 30	0 6¾	5 45	0 8⅝
			7 ,, 200-lbs. Colonial	6 0	0 6	4 30	0 6¾	6 0	0 9
			2·5-inch	3 15	0 3¼	3 15	0 5	4 0	0 6
	Q.F. 3-pr. travelling			5 0	0 5	5 30	0 8¼	6 0	0 9
	wagon	forge, R.A.	Mark I	6 15	0 6¼	4 30	0 6¾	6 0	0 9
			,, I**	7 15	0 7¼	4 30	0 6¾	6 0	0 9
			,, II and II*						
			,, III*	7 0	0 7	5 0	0 7½	6 30	0 9¾
		store, R.A.	,, I and I*	7 15	0 7¼	4 30	0 6¾	6 30	0 9¾
			,, II*	7 0	0 7	5 0	0 7½	6 30	0 9¾
Poles, draught wagons and limbers				0 15	0 0¼	0 10	0 0¼	0 15	0 0¼
Shield for Maxim machine guns				1 30	0 1½	0 30	0 0¾	No second	coat required.
Wagons	ammunition and store, R.A.			13 0	1 1	13 0	1 7½	17 0	2 1½
	ammunition	B.L.	15-pr.	7 30	0 7½	5 0	0 7½	6 30	0 9¾
			12 ,,						
		R.B.L.	20 ,,	8 30	0 8½	5 0	0 7½	7 0	0 10½
			12 ,,						
			9 ,,						
		R.M.L.	16 ,,	8 45	0 8¾	5 0	0 7½	7 15	0 10⅞
			13 ,,	8 45	0 8¾	6 0	0 9	8 15	1 0⅜
			9 ,,	8 45	0 8¾	5 0	0 7½	7 15	0 10⅞
			7 ,, 200-lbs. Colonial	8 0	0 8	5 0	0 7½	7 0	0 10½

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Gibraltar
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TABLE L—*continued.*

Description.	Scraping and Cleaning.		Painting.			
			Priming, or first Coat.		Stopping, and second Coat.	
	Time.	Amount.	Time.	Amount.	Time.	Amount.
	H. M.	s. d.	H. M.	s. d.	H. M.	s. d.
Woolwich Section, No. 13—continued.						
Wagons Artillery ...	13 0	1 1	13 0	1 7½	17 0	2 1½
Wagons forge, R.A. Mark I ...	6 45	0 6¾	6 0	0 9	9 0	1 1½
Wagons forge, R.A. ,, I* and II ...	8 45	0 8¾	9 0	1 1½	12 0	1 6
Wagons forge, R.A. ,, III ...	8 0	0 8	8 0	1 0	10 30	1 3¾
Wagons store, R.A. ,, I ...	7 45	0 7¾	8 0	1 0	10 30	1 3¾
Wagons store, R.A. ,, II ...	8 0	0 8	7 30	0 11¼	10 30	1 3¾
Woolwich Section, No. 14.						
Axletrees, transporting (including the wheels) ... bed, howitzer, R.M.L. ...	1 30	0 1½	2 0	0 3	2 30	0 3¾
Axletrees, slides, L, R.M.L. 11-inch (also 12-inch 25 tons) ...						
Axletrees, slides, L, R.M.L. 10 ,, ...						
Axletrees, slides, L, R.M.L. 9 ,, ...						
Axletrees, slides, L, R.M.L. 7 ,, ...						
Axletrees, slides, L, medium, wood ...	1 0	0 1	1 30	0 2¼	2 0	0 3
Barrows, projectile ... Nos. 1 to 6 ...	0 30	0 0½	1 30	0 2¼	1 30	0 2¼
Barrows, projectile ... Nos. 10 and 11 ...	0 30	0 0½	1 0	0 1½	1 15	0 2
Barrows, projectile ... road ...	3 0	0 3	2 15	0 3¼	2 30	0 3¾
Barrows, projectile ... shingle ...	3 30	0 3½	3 0	0 4½	3 30	0 5¼
Bars, splinter, limber, siege, wood ...	0 15	0 0¼	0 10	0 0¼	0 15	0 0¾
Beds, howitzer, R.M.L. ...	7 30	0 7½	6 30	0 9¾	7 0	0 10½
Buckets, sponge, garrison ...	0 15	0 0¼	0 15	0 0½	0 15	0 0½
Capstans, crab ...	1 30	0 1½	1 30	0 2¼	2 0	0 3
Carriages, garrison ... common, rear chock, sliding, and sliding medium (wood) ...	5 0	0 5	3 0	0 4½	4 0	0 6
Carriages, garrison ... R.M.L. 64-pr. 58 cwt., depression, iron ...	3 0	0 3	3 0	0 4½	3 0	0 4½
Carriages, garrison ... S.B. 32-pr. to 6-pr. (cast iron) ...	3 0	0 3	3 0	0 4½	3 0	0 4½

	sliding, medium, No. 2	5 0	0 5	4 0	0 6	4 30	0 6¾
	„ „ 3						
	„ „ 10						
	„ „ 11						
	„ „ 12						
	„ „ 13						
Carriages, garrison, 57	„ „ 27 ...	2 45	0 2¾	3 45	0 5⅝	3 45	0 5⅝
	„ „ 28 ...	3 0	0 3	4 0	0 6	4 0	0 6
	Q.F., 6-inch, with shield ...	6 30	0 6½	7 30	0 11¼	7 30	0 11¼
York 2891 57	Q.F., 4·7 inch, with shield and pivot plate ...	7 0	0 7	8 30	1 0¾	9 0	1 1½
	Q.F., 12-pr., with shield and pedestal ...	5 0	0 5	6 0	0 9	6 0	0 9
	Q.F., 6-pr. recoil ...	1 30	0 1½	2 0	0 3	2 0	0 3
Gibraltar 6678 57	Q.F., 3-pr. „ Hotchkiss, with shield and pedestal ...	2 0	0 2	2 45	0 4⅛	2 45	0 4⅞
	siege (without limber), B.L., 6-in. 30 cwt., howitzer ...	8 45	0 8¾	6 15	0 9⅜	7 45	0 11⅝
	siege (without limber), R.B.L. 40-pr. 6 ft. parapet ...	12 0	1 0	8 0	1 0	10 0	1 3
	siege (without limber), R.B.L. 40-pr. wood ...	10 0	0 10	6 0	0 9	7 30	0 11¼
I. of Wight 1655	siege (without limber), R.M.L. 8-in., 70 cwt., howitzer	9 15	0 9¼	6 15	0 9⅜	7 45	0 11⅝
	siege (without limber), R.M.L. 8 „ 40 „ „						
	siege (without limber), R.M.L. 6·6-in. gun ...						
Carriages ...	siege (without limber), R.M.L. 6·6 „ howitzer ...						
	siege (without limber), R.M.L. 6·3 „ „						
57	siege (without limber), R.M.L. 40 „ with top over bank ...	11 45	0 11¾	8 45	1 1⅛	10 45	1 4⅛
Devonport 7050	siege (without limber), R.M.L. 25 „ „ „ ...	10 45	0 10¾	7 0	0 10½	9 15	1 1⅞
	siege, top, B.L. 6-in., 30 cwt., howitzer ...	2 0	0 2	1 15	0 1⅞	1 30	0 2¼
	travelling, B.L. (without limber), 5-in. and 4-in., 6 ft. parapet ...	10 45	0 10¾	8 15	1 0⅜	10 15	1 3⅜
	transporting guns up inclines (12·5-inch) ...	10 0	0 10	7 0	0 10½	9 0	1 1½
Chain, ammunition, lift ...		18 0	1 6	15 0	1 10½	14 15	1 9½
Cones, Q.F., recoil 6-pr. for recoil carriage for Hotchkiss and Nordenfelt 6-pr. Q.F. gun		1 0	0 1	1 0	0 1⅓	1 0	0 1½
Gear for landing heavy guns at sea forts	chain* ...	160 0	13 4	—	—	—	—
	remaining gear ...	4 0	5 4	64 0	8 0	64 0	8 0
Gear, loading, and apparatus washing out, 10·4-inch R.M.L. ...		9 0	0 9	6 0	0 9	8 0	1 0
Gyns	Gibraltar ...	4 0	0 4	3 0	0 4½	4 0	0 6
	triangle, with appurtenances, heavy, hydraulic ...	4 0	0 4	5 0	0 7½	5 15	0 8
	triangle, with appurtenances, heavy, tubular ...	9 0	0 9	6 0	0 9	8 30	1 0¾
	triangle, with appurtenances, heavy, wood ...						
	triangle, with appurtenances, light, tubular ...	7 0	0 7	5 0	0 7½	7 0	0 10½
	triangle, with appurtenances, light, wood ...						
	triangle, with appurtenances, 16 feet ...	6 0	0 6	4 30	0 6¾	6 0	0 9

* The following are allowed for greasing:—Time, 32 hours; amount, 2*s.* 8*d.*

TABLE L—*continued.*

	Description.	Scraping and Cleaning.		Painting.			
				Priming, or First coat.		Stopping, and second coat.	
		Time.	Amount.	Time.	Amount.	Time.	Amount.
		H. M.	s. d.	H. M.	s. d.	H. M.	s. d.
57	*Woolwich Section, No.* 14—continued.						
Devonport	Limbers, field, R.M.L., 25-pr. ...	7 15	0 7¼	4 30	0 6¾	5 45	0 8⅝
7050	Limbers, siege, B.L, 6-in., 30 cwt., howitzer ...	7 15	0 7¼	3 45	0 5⅝	5 15	0 7⅞
	Limbers, siege, R.B.L., 40-pr. iron wood ...	6 0	0 6	4 0	0 6	5 30	0 8¼
Limbers ...	Limbers, siege, R.M.L. 8-in., 70 cwt., howitzer 8 ,, 46 ,, ,, 6·6-in. gun 6·6-in. howitzer 6·3 ,, howitzer 40 ,, ...	7 15	0 7¼	3 45	0 5⅝	5 15	0 7⅞
	Limbers, transporting bed, howitzer, R.M.L. ...	6 30	0 6½	4 0	0 6	5 0	0 7½
	Limbers, transporting slide L. iron ...	5 0	0 5	5 0	0 7½	7 0	0 10½
	Limbers, transporting slide L. medium ...	3 0	0 3	3 0	0 4½	5 0	0 7½
	Limbers, travelling, B.L., 5-in. and 4-in. 6-ft. parapet ...	7 15	0 7¼	3 45	0 5⅝	5 15	0 7⅞
57	**Magazine**, portable ...	1 30	0 1½	1 30	0 2¼	2 0	0 3
Gibraltar	**Pedestal**, Q.F. 6-in. Mark I ...	3 0	0 3	3 30	0 5¼	3 30	0 5¼
6678	**Pivots**, 10·4-inch, R.M.L. ...	2 0	0 2	1 30	0 2¼	1 30	0 2¼
	Platforms, ground, for slide L. medium No. 15 ...	4 0	0 4	4 0	0 6	6 0	0 9
Platforms	Platforms, ground, R.M.L. howitzer beds ...	8 0	0 8	8 0	1 0	13 0	1 7½
		6 0	0 6	5 30	0 8¼	8 0	1 0*
	Platforms, siege, Clerk's ...	4 0	0 4	4 0	0 6	7 0	0 10½
57	Platforms, siege, double decked, "C" pivot (complete, with pivot plate, &c.) ...	2 30	0 2½	3 30	0 5¼	3 30	0 5¼
Malta	**Pumps**, air, double, carriage, garrison, H.P. ...	0 45	0 0¾	1 0	0 1½	1 0	0 1½
1300	**Pumps**, gyn, hydraulic ...	0 45	0 0¾	1 0	0 1½	1 0	0 1½

57	**Sabots,** barrow projectile †	1 15	0 1¼	1 20	0 2	1 20	0 2
Portsmouth	**Saddle,** Q.F. 6-pr. for recoil carriages for Hotchkiss and Nordenfelt 6-pr.						
3582	**Shafts** ... Q.F. guns	0 15	0 0¼	0 15	0 0⅜	0 15	0 0⅜
	Shafts ... (single)	0 15	0 0¼	0 10	0 0¼	0 15	0 0⅜
	Shafts ... (framed)	0 30	0 0½	0 20	0 0½	0 30	0 0¾
	Sleighs, gun, 12 tons to 38 tons, *or* 12 tons to 25 tons	7 0	0 7	4 30	0 6¾	6 0	0 9
	Slides, L., medium ... No. 11	7 0	0 7	4 30	0 6¾	6 0	0 9
	Slides, L., medium ... ,, 12						
	Slides, L., medium ... ,, 13						
	Slides, L., medium ... ,, 14						
	Slides, L., medium ... ,, 15						
	Slides, L., medium ... ,, 16						
	Slides, L., medium ... ,, 17						
	Slides, L., medium ... ,, 18						
57	**Slides, L.,** medium ... ,, 19						
York	**Slides, L.,** medium ... ,, 23	3 30	0 3½	4 15	0 6⅜	4 15	0 6⅜
	Slides, L., medium ... ,, 24	3 45	0 3¾	4 30	0 6¾	4 30	0 6¾
2891	**Stages,** loading	2 0	0 2	3 0	0 4½	4 0	0 6
	Swingletrees	0 5	0 0$\frac{1}{17}$	0 5	0 0⅛	0 5	0 0⅛
	Trolleys loading, R.M.L. 17·72-inch	3 30	0 3½	4 0	0 6	4 15	0 6¼
	Trolleys loading, R.M.L. high angle, 9-inch	1 0	0 1	1 30	0 2¼	1 30	0 2¼
	Trolleys shell, R.M.L., 17·72-inch...	1 0	0 1	1 0	0 1½	1 0	0 1½
	Trucks, ballast, 4 ft, 8½ in. gauge...	14 30	1 2½	12 30	1 6¼	15 30	1 11¾
	Turntables, R.M.L. 12·5-inch gun	120 0	10 0	60 0	7 6	60 0	7 6
	Turntables, R.M.L. 10-inch gun ...	108 0	9 0	56 0	7 0	56 0	7 0
	Wagons ammunition R.B.L., 40-pr.	10 30	0 10½	6 0	0 9	8 0	1 0
	Wagons ammunition R.M.L. 40 ,,	9 15	0 9¼	6 15	0 9⅜	8 15	1 0⅜
	Wagons ammunition R.M.L. 25 ,,	9 15	0 9¼	5 30	0 8¼	7 45	0 11⅝
	Wagons platform gun, R.M.L. 6·6-inch	15 0	1 3	8 0	1 0	10 0	1 3
	Wagons platform gyns ...	16 0	1 4	8 30	1 0¾	11 0	1 4½
	Wheels 1st class (5 feet)	0 40	0 0⅔	0 55	0 1⅜	1 10	0 1¾
	Wheels 2nd ,, (5 feet) ...	0 40	0 0⅔	0 50	0 1¼	1 0	0 1½
	Wheels 2nd ,, (4 ,,)...	0 30	0 0½	0 45	0 1⅛	0 50	0 1¼
	Wheels 2nd ,, (3 ,, 4 inches and 3 feet 6 inches)	0 25	0 0$\frac{5}{12}$	0 40	0 1	0 45	0 1⅛
	Not in Vocabulary.						
	Spouting, shell (with trestles) per length of 12 feet	1 0	0 1	1 0	0 1½	1 0	0 1½
	Engines, 17·72-inch gun	14 0	1 2	7 0	0 10½	7 0	0 10½
	Tanks for engine, 17·72-inch gun	12 0	1 0	6 0	0 9	6 0	0 9

* When fixed in position.

† For 10 sabots.

TABLE L—*continued.*

Description.	Scraping and Cleaning.		Painting.			
			Priming, or first Coat.		Stopping, and second Coat,	
	Time.	Amount.	Time.	Amount.	Time.	Amount.
	H. M.	s. d.	H. M.	s. d.	H. M.	s. d.
Woolwich Section No. 15.						
Barrows … magazine double …	1 0	0 1	1 30	0 1½	2 0	0 3
Barrows … magazine single …	1 0	0 1	1 0	0 1½	1 30	0 2¼
Barrows … magazine lamps …	—	—	2 0	0 3	2 0	0 3
Barrows … powder …	1 30	0 1½	1 30	0 2¼	2 0	0 3
Beds, R.M.L. 7-pr. 200 lbs. …	2 0	0 2	1 30	0 2¼	2 0	0 3
Carriages, mountain, R.M.L. 4-inch howitzer …	3 30	0 3½	3 30	0 5¼	3 0	0 6¾
Carriages, mountain, R.M.L. 15-pr. …	3 0	0 3	3 0	0 4½	4 0	0 6
Carriages, mountain, R.M.L. 7-pr. 200 lbs. (without limber) …	1 30	0 1½	1 30	0 2¼	2 0	0 3
Carriages, mountain, R.M.L. 7-pr. 150 lbs. …	3 0	0 3	3 0	0 4½	4 0	0 6
Carriages, mountain, R.M.L. 2·5-inch …						
Limbers, mountain R.M.L. 7-pr. 200 lbs. …	3 30	0 3½	3 30	0 5¼	4 0	0 6
Woolwich Section, No. 16.						
Carriages, parapet, machine gun …	1 0	0 1	1 30	0 2¼	1 30	0 2¼
57/Ceylon/1405 **Ordnance**, Q.F. Hotchkiss, 6-pr. pivot and socket …	2 30	0 2½	3 0	0 4½	3 0	0 4½
Ordnance, Q.F. Hotchkiss, 6-pr. stand, elastic frame …						
Ordnance, Q.F. Hotchkiss, 6-pr. shield …						
Ordnance, Q.F. Hotchkiss, 3-pr. pivot …	2 0	0 2	2 30	0 3¾	2 30	0 3¾
Ordnance, Q.F. Hotchkiss, 3-pr. stand, elastic frame …						
Ordnance, Q.F. Hotchkiss, 3-pr. shield …						
Skidding, iron (10 feet) …	1 0	0 1	0 30	—	0 30	0 1½ †
Skidding, iron (4 ,,) …	0 30	0 0½	0 15	—	0 15	0 0¾

Woolwich Section, No. 18.						
Cases, cartridge‡ Nos. 1, 2 and 3 ...	3 0	0 3	3 0	0 4½	3 0	0 4½
,, ,, 4, 5, 6, 7 and 25 ...	2 0	0 2	2 0	0 3	2 0	0 3
Woolwich Section, No. 19.						
Perches, wagon, ammunition R.B.L. 9-pr. ...	0 20	0 0½	0 15	0 0½	0 20	0 0¾
Scotches, recoil ...	0 30	0 0½	0 30	0 0¾	0 40	0 1
Woolwich Section, No. 20.						
Cases, powder, metal-lined, whole (for 100 cases) ...	10 0	0 10	20 0	2 6	20 0	6
Woolwich Section, No. 24						
Bearers, shot, R.B.L., R.M.L., and S.B. ...	—	—	0 15	0 0½	0 15	0 0½
Garlands, rectangular 13-inch, 4 ft. 2½ in. ... 4 lengths	1 0	0 1	0 30	—	0 30	0 1½
,, rectangular 8 ,, 2 ,, 8 ,, ... ,,	0 30	0 0½	0 15	—	0 15	0 0¾
,, rectangular 32-pr. 4 ,, 2 ,, ... ,,	1 0	0 1	0 30	—	0 30	0 1½
,, rectangular 32-pr. 3 ,, 8 ,, ... ,,	0 45	0 0¾	0 20	—	0 20	0 1
,, rectangular 32-pr. 2 ,, 1 ,, ... ,,	0 30	0 0½	0 15	—	0 15	0 0¾ †
,, rectangular 24 ,, 1 ,, 11 ,, ... ,,	0 20	0 0½	0 10	—	0 10	0 0¾
,, rectangular 12 ,, 1 ,, 6½ ,, ... ,,						
,, triangular, 8-inch, 4 ft. 8¼ in. ... 3 lengths	1 30	0 1½	0 30	—	0 30	0 1½
Woolwich Section, No. 2.						
Packsaddlery, artillery, cradles. R.M.L. 7-pr. (200 and 150 lbs.) ...	0 15	0 0¼	0 30	0 0¾	0 30	0 0¾
,, ,, 2·5-inch ...	0 20	0 0½	0 30	0 0¾	0 35	0 1

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† Working pay for two coats.

‡ For 10 cases.

TABLE M.

The following Table shows the times allowed, and the working pay to be paid for scraping, cleaning, and painting all natures of Projectiles, and also the quantities of Paint required for painting 100 of each description of Projectile:—

Natures.			Unpiling, scraping, and cleaning in 10 hours.		Painting one coat (without piling) in 10 hours.		Piling in 10 hours.		Quantity of Paint per 100, for one coat.
			No.	Amount per 100.	No.	Amount per 100.	No.	Amount per 100.	
				s. d.		s. d.		s. d.	lbs. ozs.
Shell and Shot, B.L. or Q.F.		13·5-inch	6	13 10¾	25	5 0	36	2 6	33 0
		12 ,,	8	10 5	33	3 9	40	2 1	20 0
		10 ,,	10	8 4	50	2 6	50	1 8	16 0
		9·2 ,,	12	6 11½	50	2 6	50	1 8	11 0
		8 ,,	16	5 2½	60	2 0	63	1 4	9 0
		6 ,,	30	2 9½	120	1 1	167	0 6	6 0
		5 ,, also 4·7-inch	40	2 1	125	1 0	167	0 6	5 0
		4 ,,	50	1 8	150	0 10	250	0 4	4 0
		12-pr.	60	1 4¾	200	0 7½	334	0 3	3 0
Shell and Shot, R M.L.	common, Shrapnel, Palliser, and case	17·72-inch 16 ,,	4	20 10	20	6 3	40	2 0	36 8
		12·5 ,,	7	11 11	30	4 2	50	1 8	22 0
	common, Shrapnel, and Palliser	12-inch	8	10 5	33	3 9	50	1 8	20 0
		11 ,,	10	8 4	42	3 0	60	1 5	15 0
		10·4 ,, (also case) 10 ,,	12	6 11½	50	2 6	60	1 5	12 8
		9 ,,	15	5 6¾	60	2 0	80	1 0½	10 0
		8 ,,	18	4 7½	72	1 10	100	0 10	9 0
		7 ,,	25	3 4	100	1 3	140	0 7¼	8 0
		6·6 ,, (also case)	30	2 9½	120	1 1	150	0 6¾	6 0

Shell and Shot, R.M.L.	common, Shrapnel, and case	6·3-inch, 80-pr. and 64-pr.	35	2 4¾	125	1 0	150	0 6¾	5 8
		40-pr. (also R.B.L. case)...	40	2 0	150	0 10	240	0 4¼	4 0
		25-pr., 16-pr., and 4-in. howitzer (also R.B.L. case 20-pr.)	50	1 8	175	0 8½	300	0 3½	3 0
		15-pr., 13-pr., 9-pr., and 7-pr. (also R.B.L. case 12-pr. and 9-pr.)	60	1 4¾	200	0 7½	300	0 3½	2 0
		2·5 inch	80	1 0½	200	0 7½	250	0 3	1 8
	double ...	7-inch	20	4 2	100	1 3	120	0 8	9 0
		7-pr.	40	2 1	200	0 7½	350	0 3	2 8
	case ...	12-inch	15	5 6¾	50	2 6	50	1 8	10 0
		11 ,, ...	17	4 11	60	2 0	60	1 5	7 8
		10 ,, ...	20	4 2	75	1 8	60	1 5	6 4
		9 ,, ...	25	3 4	100	1 3	80	1 0½	5 0
		8 ,, ...	27	3 1	110	1 1½	100	0 10	4 8
		7 ,, ...	30	2 9½	125	1 0	140	0 7¼	4 0
Shell and Shot, S.B.		8-inch or 68-pr.	55	1 6½	125	1 0	230	0 4½	3 10
		32-pr.	80	1 0½	150	0 10	300	0 3½	2 6
		24 ,, ...	90	0 11	190	0 8	360	0 2¾	2 0
		12 ,, ...	110	0 9	400	0 3¾	600	0 1¾	1 0
Shells, R.B.L., common, segment, and Shrapnel ...		7-inch	60	1 4¾	175	0 8½	140	0 7¼	3 0
		40-pr.	80	1 0½	225	0 6½	240	0 4	2 8
		20 ,, ...	100	0 10	300	0 5	300	0 3½	2 0
		12 ,, ... 9 ,, ...	120	0 8½	300	0 5	500	0 2	2 0
Shot, S.B.B.L., case, 32-pr.			30	2 9½	350	0 4½	350	0 3	5 8

TABLE M—*continued.*

Nature.		Quantity of Paint per 100.														Painting in 10 hours either operation.*	
		Red ring.		White ring.		Red tip.		White tip.		White and yellow rings over body.		Red stars on star shell.		Blue tip.		No.	Amount per 100.
		lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.	lbs.	ozs.		s. d.
Shell and Shot, B.L. and Q.F.	13·5-inch and 12-inch	3	0	2	0	5	0	2	8	3	8	—		—		75	1 8
	10-inch and 9·2-inch	2	12	1	8	4	8	2	4	3	0	—		—		83	1 6¼
	8-inch	2	4	1	0	4	0	2	0	2	8	—		—		112	1 1½
	6-inch and 5-inch	2	4	1	0	4	0	2	0	2	8	—		4	0	150	0 10
	4-inch	1	12	0	12	3	0	1	8	2	0	1½ white, 1 red		3	0	225	0 6¾
	12-pr.	1	12	0	12	3	0	1	8	2	0			3	0	300	0 5
	6-pr. and 3-pr.	1	0	0	8	—		—		1	0	—		—		375	0 4
Shell, R.B.L.	7-inch	2	4	—		4	0	—		2	8	—		4	0	150	0 10
	40-pr. and 20-pr.	1	12	—		3	0	—		1	8	—		3	0	225	0 6¾
	12-pr. and 9-pr....	1	4	—		2	0	—		1	0	—		2	0	300	0 5
Shell and Shot, R.M.L.	17·72-inch and 16-inch...	3	0	2	0	5	0	2	8	3	8	—		—		46	2 9½
	12·5-inch and 12-inch	3	0	2	0	5	0	2	8	3	8	—		—		75	1 8
	11-inch	3	0	2	0	5	0	2	8	3	8	—		—		83	1 6¼
	10·4-inch and 10 inch	2	12	1	8	4	8	2	4	3	0	—		—		83	1 6¼
	9-inch	2	12	1	8	4	8	2	4	3	0	—		—		112	1 1½
	7 „	2	4	1	0	4	0	2	0	2	8	—		—		150	0 10
	6·6-inch and 6·3-inch																
	80-pr. and 64-pr.																
	40-pr., 25-pr., and 4-inch howitzer	1	12	0	12	3	0	1	8	2	0	—		—		225	0 6¾
	16-pr. to 2 5-inch	1	12	0	12	3	0	1	8	2	0	1½ white, 1 red		3	0	300	0 5

* See Regulations for Magazines, etc., as to painting rings and tips.

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9945

TABLE N.

Quantity of Oil, and Time and Working Pay, for oiling projectiles.

Nature.		Oiling (without piling), in 10 hours.			Piling or unpiling in 10 hours.			Quantity of oil per 100.
		No.	Amount per 100.		No.	Amount per 100.		
			s.	d.		s.	d.	pints
Shell and shot, B.L. and Q.F.	13·5-inch	50	2	6	33	2	6	10
	12 ”	66	1	10½	40	2	1	8
	10 ”	100	1	3	50	1	8	6
	9·2 ”	100	1	3	50	1	8	5
	8 ”	120	1	0	63	1	4	4
	6 ”	240	0	6½	167	0	6	3
	5 ” also 4·7-inch	250	0	6	167	0	6	2
	4 ”	300	0	5	250	0	4	1
	12-pr.	400	0	3¾	334	0	3	½
Shell and shot, R.B.L.	7-inch	350	0	4¼	140	0	7¼	1½
	40-pr.	450	0	3¼	240	0	4	1
	20 ”	600	0	2½	300	0	3½	1
	12 ” and 9-pr.	600	0	2½	500	0	2	½
Shell and shot, R.M.L.	17·72 and 16-inch	40	3	1½	40	2	0	12
	12·5-inch	60	2	1	50	1	8	10
	12 ”	66	1	10½	50	1	8	8
	11 ”	84	1	6	60	1	5	8
	10·4 ” and 10-inch	100	1	3	60	1	5	6
	9 ”	120	1	0	80	1	0½	5
	8 ”	144	0	11	100	0	10	4
	7 ”	200	0	7½	140	0	7¼	1½
	6·6 ”	240	0	6½	150	0	6¾	3
	6·3 ” 80-pr. and 64-pr.	250	0	6	150	0	6¾	3
	40-pr.	300	0	5	240	0	4¼	1½
	4-inch howitzer	350	0	4¼	300	0	3½	1
	25-pr.	350	0	4¼	300	0	3½	¾
	16 ”	350	0	4¼	300	0	3½	½
	13 ” to 7-pr.	400	0	3¾	300	0	3½	½
	2·5 inch	400	0	3¼	350	0	3	½

TABLE O.

The following Table shows the quantities of paint, time, and working pay allowed for re-lubricating, re-painting and removing G.S., and R.B.L. Field Service fuze-hole plugs of filled Shells, as directed in Regulations for Magazines, etc.

Natures.	No. per hour.	Amount per 100.	Quantity of Paint allowed.	Remarks.
		s. *d.*	lbs. ozs.	
R.B.L. 7-inch	50	0 3	1 0	
R.B.L. 40-pr. and under ...	40	0 3¾	1 0	
R.M.L. 64-pr. **B.L.**, 6-inch and upwards...	50	0 3	1 0	
R.M.L., 40-pr. **B.L.**, 5-inch and under ...	40	0 3¾	1 0	

TABLE P.

Group Marks and Manning Boards.

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	Paint.	Rate of working-pay for painting.
Group symbols, and manning boards for Assembly parades	Description and quantities as required. *See* paragraphs 187 and 205.	1½*d.* per hour, unless a skilled artificer, of whose craft painting forms a part, is necessarily employed, in which case the rate may be 2*d.*

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APPENDIX I.

LISTS OF STORES FOR MOUNTING, DISMOUNTING AND MOVING, &c., GUNS OF 18 TO 100 TONS.

Referred to in paragraph 61.

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Appendix I—*continued.*

Transporting by Trolley on Rails—18 to 47 tons.

List No. 1.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 4.			
Trucks, railway, gun	1	General purposes...	According to weight of gun.
Woolwich Section, No. 11.			
Grease, Field's* (in pot) lbs.	2		
Woolwich Section, No. 14.			
Handspikes, common, 7 ft. ...	6	General purposes.	
Woolwich Section, No. 18.			
Ropes, parbuckling, 18 fms., 6-in.	2	General purposes.	
Woolwich Section, No. 19.			
Planks, moving guns, half, 6 ft. × 12 in.	6	General purposes.	
Scotches, large	20		
Skids 6 ft. × 12 in. square ...	1		
Skids 3 ft. × 9 in. × 6 in. ...	1		

* Black grease will be used in place of Field's grease at all foreign stations except British North America and St. Lucia.

N.B.—One winch or crab capstan and a tackle may be required if on an incline.

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6462

Transporting by Special Wrought Iron Carriage on Rails up Incline—18 to 47 tons.

List No. 2.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 2.			
Mauls, iron-hooped ... **Posts**, picket, 8 feet ...	...	For general purposes.	As required.
Woolwich Section, No. 10.			
Chain, iron, cable, 1 in.	4	For main chains ...	12½ fm. lengths.
Crabs, hoisting guns 50 tons ...	4	For hauling, viz., 2 half-way, and 2 at top of incline	
Crabs, hoisting guns 25 ,, ...	4	For hauling in slack of chain.	
Frames, crab, hoisting guns ... ... 50 tons ...	4	Use with crabs.	
Frames, crab, hoisting guns ... ... 25 ,, ...	4		
Woolwich Section, No. 14.			
Carriages, wrought iron, transporting	1	For carrying guns	Special.
Holdfasts	...	For general purposes	As required.
Woolwich Section, No. 18.			
Blocks, iron, snatch	6	2 for main chains 2 at crabs half-way 2 at top of incline	Special for 1-in. chain.
Cordage, hawser, 3-strand, tarred, 9-inch ... ... coils	2	For brake-check rope.	
Lashings, tarred, 2½-in. *and* 1½-in.	...	For General purposes	As required.

Appendix I—*continued.*

Transporting by Sleigh—18 to 47 tons.

LIST NO. 3.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 2.			
Drivers, pile, Swiss	2		
Mauls, iron-hooped...	6		
Posts, picket, 8 feet	9	Holdfast if level.	On an incline, sunken holdfasts may be necessary.
Posts, picket, 5 „	12		
Woolwich Section, No. 10.			
Crabs, hoisting guns, 50 tons, *or* 25 tons	2	For inclines ...	As required.
Frames, crab, hoisting guns, 50 tons, *or* 25 tons	2	Use with crabs.	
Jacks, lifting, hydraulic, Tangye's, 7½ tons, 15 tons, *or* 22½ tons*	2	... ...	As required.
Woolwich Section, No. 14.			
Capstans, crab	2	For level.	
Handspikes, common, 7 ft. ...	12		
Levers, 14 feet	2		
Sleighs, gun, 12 tons to 45 tons...	1	Roadway and general purposes.	
Woolwich Section, No. 18.			
Blocks, wood, Both-way, single, 18-inch	2	Check rope and motive power.	
Blocks, wood, Both-way, double, 18-inch	2		
Blocks, wood, Both-way, treble, 18-inch	2		
Blocks, wood, snatch, 18-inch ...	2		
Cordage, hawser, 3 strand, white, 6-inch (coils of 113 fathoms)	2		
Cordage, spun yarn, tarred, hemp, 3-thread lbs.	4		
Gyns, triangle, heavy, slings, gun, 16 ft.	1	Attached to gun.	
Gyns, triangle, heavy, thimbles, sling, 16 ft.	1		
Gyns, triangle, 16 feet, slings	4	Standing end f tackles, &c.	
Lashings, tarred, 2½-inch, 5 fms.	12		
Ropes, drag, heavy	6		
Selvagees, ordinary	6		
Woolwich Section, No. 19.			
Planks, moving guns.†, half, 4 ft. × 12 in. ...	6		
Planks, moving guns.†, whole, 10 ft. × 17 in, fir	15	For roadway.	
Planks, moving guns.†, whole, 10 ft. × 17 in, oak	4		
Rollers, ground, 7 ft. × 12 in. diameter...	4	For travelling.	
Rollers, ground, 6 ft. × 10 in. „ ‡ ...	6	For placing sleigh under gun.	
Rollers, ground, 2 ft. × 8 in. „	4	For shifting sleigh.	
Scotches, large	20		
Scotches, large, handled ...	6	For following up incline.	

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* These jacks will be replaced by G.S. jacks of 10 tons, 20 tons, and 30 tons respectively as the present stock becomes used up. The 30-ton jack should be used with guns over 45 tons.

† The estimate for planks and skids is merely approximate, it must vary with the nature of the operation.

‡ The 6-ft. × 10-in. rollers are only required when the gangway is too narrow to use the longer rollers, or for transporting carriages and slides.

Appendix I—*continued.*

LIST NO. 3—*continued.*

Name of Store.	No. required.	For what purpose.	Remarks.
Skids* 6 ft. × 12 in. square	6	Roadway and general purposes.	
Skids* 4 ft. × 12 in. ,, ...	6		
Skids* 5 ft. × 6 in. × 5 in.... ...	2		
Skids* 3 ft. × 9 in. × 6 in.... ...	6		
Skids* 3 ft. × 6 in. × 5 in.... ...	6		
Skids* 3 ft. × 6 in. × 3 in.... ...	6		
Wedges oak, 18-inch	6	For passing from one skid to another when not exactly of same level.	18 in. × 12 in. × 2½ in.

* See foot-note † on previous page.

Transporting by Parbuckling—18 to 47 tons.

LIST NO. 4.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 2.			
Drivers, pile, Swiss	2		
Mauls, iron-hooped	6		
Posts, picket ... 8-feet	9	Holdfasts.	
Posts, picket ... 5 ,, ...	12		
Woolwich Section, No. 10.			
Jacks, lifting, hydraulic, Tangye's, 7½ tons, 15 tons, *or* 22½ tons*	1	... ...	As required.
Plates, moving guns	2	For placing over skids to ease moving forward the muzzle.	For 35-ton guns and upwards.
Woolwich Section, No. 11.			
Grease, Field's† (in pot) ... lbs.	2		
Woolwich Section, No. 14.			
Buckets, sponge, garrison ...	1		
Capstans, crab	2		
Handspikes, common, 7-feet ...	8		
Levers, 14-feet	3		
Woolwich Section, No. 18.			
Blocks, wood, Both-way... double, 12-in.	1	For cutting muzzle.	
Blocks, wood, Both-way... single, 12 ,,	1		
Blocks, wood, snatch 18-in. ...	2		
Blocks, wood, snatch 12-in. ...	2		
Cordage, hawser, 3-strand, tarred, 4-inch... ... ... fms.	56½	For cutting muzzle.	
Gyns, triangle, heavy, slings, gun, 3-feet	1		
Lashings, tarred, 2½-inch, 5 fms.	10		

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* See footnote * on page 96.

† Black grease will be used in place of Field's grease at all foreign stations except British North America and St. Lucia.

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Appendix I—*continued.*

List No. 4—*continued.*

57
Dover
3641

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 18—continued.			
Ropes drag, heavy	6		
Ropes parbuckling, 18 fms. 6-in.	2		
Selvagees, ordinary	6		
Slings, rope, 6-inch, 12 feet long	2	Making fast crab capstan to pickets.	
Woolwich Section, No. 19.			
Planks, moving guns ... half... 6 ft. × 12 in.	3	Roadway, &c.	
half 4 ,, × 12 ,,	2		
whole 10 ,, × 17 ,, fir	8		
whole 10 ft. × 12 in.	4		
Rollers, ground, 8ft. × 12ins. diameter	1	For cutting muzzle	For 38-ton guns only.
Scotches, large	8		6 for guns of 25 tons and upward.
Skids* 20 ft. × 15 in. square ...	4	Roadway and general purposes.	
6 ,, × 12 ,, ,, ...	2		
4 ,, × 12 ,, ,, ...	2		
3 ,, × 9 ,, × 6 in. ...	6		
3 ,, × 6 ,, × 5 ,, ...	6		
3 ,, × 6 ,, × 3 ,, ...	6		
Wedges, oak, 18-inch	2	For passing from one skid to another when not exactly on equal level.	18in. × 12in. × 2½in.

* The list of skidding is merely an approximation, and must vary with every operation.

Mounting and Dismounting in Open Battery or "C" Emplacement—18 to 47 tons.

List No. 5.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Jacks, lifting, hydraulic, Tangye's, 7½-tons, 15 tons, *or* 22½ tons*	1	... ...	As required.
Shackles, lifting, 38-ton guns ...	1	To lift the breech with a gyn.	For 35 and 38-ton guns.
Woolwich Section, No. 14.			
Gyns, triangle, with appurtenances, heavy, tubular†	1	Lifting breech.	

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* See footnote * on page 96.

† The power of the gyn having been raised to 15 tons, the tackle for guns over 35 tons should consist of two 18-inch blocks and 20 fms. of 6-inch white rope.

Appendix I—*continued.*

LIST NO. 5—*continued.*

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 18.			
Gyns, triangle, heavy, slings, gun, 3 ft.	1	Round cascable.	
Gyns, triangle, 16 ft., slings	2	General purposes.	
Ropes, drag, heavy	6		
Selvagees, ordinary	6		
Slings, rope, 12 in., 4 ft. 4 in. long	1	Round cascable	Guns of 25 tons.
Slings, 6-in., 5 ft. long	1	General purposes.	
Slings, 5 ,, 5 ,,	1		
Slings, 4 ,, 5 ,,	1		
Tackles, luff, 14 fathoms	2		
Woolwich Section, No. 19.			
Planks, moving guns, half, 6 ft. × 12 in.	4	To move guns and slide, &c.	
Planks, moving guns, half, 4 ft. × 12 in.	8		
Planks, moving guns, whole, 10 ft. × 17 in., oak	2		
Rollers, ground, 3 ft. × 5 in. diameter, sabicu	6	To move slide.	
Scotches, large	16		
Scotches, medium	16		
Scotches, small	16		
Skids*, 14 ft. × 8 in. square	2		
Skids*, 6 ft. × 12 in. ,,	12		
Skids*, 4 ft. × 12 in. ,,	4		
Skids*, 3 ft. × 9 in. × 6 in.	4		
Skids*, 3 ft. × 6 in. × 5 in.	2		
Skids*, 3 ft. × 6 in. × 3 in.	4		
Skids*, dismounting, $11\frac{1}{2}$ ft. × 15 in. × 20 in.	1	Under chase	35 to 47-ton guns.
Skids*, dismounting, $11\frac{1}{2}$ ft. × 10 in. × 20 in.	1		11-in. or 12-in. 25-ton guns.
Skids*, dismounting, 10 ft. × 9 in. × 15 in.	1		10-in. guns.

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* The list of skidding is merely an approximation, and must vary with every operation.

Mounting and Dismounting by Box-Beam in Casemates where the Height of the Crown of the Arch is above 12 feet. (As at Hurst Castle.)* 18 to 47 tons.

LIST NO. 6.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Apparatus, lifting guns, Hurst pattern, Blocks	20	To support the hydraulic jacks.	16 of 2 ft. × 10 in. × 10 in., 2 of 3 ft. 6 in. × 16 in. × 10 in., and 2 (fitted to base plates) of 1 ft. $10\frac{1}{2}$ in. × 16 in. × $9\frac{3}{4}$ in.
Apparatus, lifting guns, Hurst pattern, Bolts, bent	2	To suspend gun to box-beam.	3 ft. × 2 in.

---

* The box-beam is not required when the gun can be hung up in the port on built-up skidding in front of the slide, the upper part of the chase bearing against the top of the port.

Appendix I.—*continued.*

LIST No. 6—*continued.*

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10—continued.			
Apparatus, lifting guns, Hurst pattern, Boxes, beam ...	1		
Frames	1	To suspend box-beam.	
Plates, washer	2	Connect bent bolts and main screws.	18 in. × 7 in. × 1½ in.
Screws, main ...	2	To connect beam to frame.	5 ft. × 3 in.
Stands, hydraulic jack ...	—	To steady the jacks.	2 ft. × 2 ft. × 1 ft. 8½ in.
Tommies, bottom nut ...	2	For bottom nut of main screw.	
Jacks, lifting, hydraulic, Tangye's, 22½ tons*	2		
Woolwich Section, No. 14.			
Handspikes, 7 feet	6		
Levers 14 feet	2		
12 ,, ...	2		
8 ,, ...	1		
Woolwich Section, No. 18.			
Cordage, hawser, 3-strand, tarred, 4½ inch ... ... fms.	6	To support rear of carriage, with 2 luff tackles.	
Ropes, drag, heavy...	6		
Selvagees, ordinary	6		
Tackles gun, 3-inch white rope	2	For lifting front of carriage.	
luff, 14 fathoms ...	2	To support rear of carriage.	
Woolwich Section, No. 19.			
Planks, moving guns half, 6 ft. × 12 in.	4		
whole, 10 ft. × 12 in.	4		
Scotches large	6		
medium	6		
small	6		
Skids 6 ft. × 12 in. square ...	8		
4 ,, × 12 ,, ,, ...	8		
3 ,, × 9 ,, × 6 in. ...	12		

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* These jacks will be replaced by G.S. jacks of 30 tons as the present stock becomes used up. The 30-ton jack should be used with guns of over 45 tons.

Mounting and Dismounting in Casemates—18 to 47 tons.

LIST No. 7.

57
Gibraltar
6401

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Chain, iron, crane ⅝-in. ... ... fms.	1	Short sling...	For beam.
¾-in. ... ... ,,	12	Lashing beam to cascable....	
Jacks, lifting, hydraulic, Tangye's, 7½ tons, 15 tons, *or* 22½ tons* (with "Apparatus, lifting guns, Stand, hydraulic jack")	2	... ...	As required.
Woolwich Section, No. 14.			
Levers, 14 feet	2		

* See footnote * on page 96.

Appendix I—*continued.*

List No. 7—*continued.*

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 18.			
Gyns, triangle, 16 feet, slings ...	2		
Ropes, drag, heavy	6		
Selvagees, ordinary	6		
Tackles, gun, 3-in. white rope ...	2		
Woolwich Section, No. 19.			
Planks, moving guns, half 6 ft. × 12 in. ...	6		
4 ,, × 12 ,, ...	4		
Skids 6 ft. × 12 in. square	22		
4 ,, × 12 ,, ,, ...	16		
3 ,, × 9 ,, × 6 in.	4		
3 ,, × 6 ,, × 5 ,, ...	2		
3 ,, × 6 ,, × 3 ,, ...	4		
dismounting 11½ ft. × 15 in. × 20 in.	1	... ...	35 to 47-ton guns.
11½ ,, × 10 ,, × 20 ,,	2	... ...	11-in. or 12-in. 25 ton guns.
10 ,, × 9 ,, × 15 ,,	2	... ...	10-in. guns.

N.B.—When the breech is lowered by means of tackle, the following additional stores will be required:—

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Crabs, hoisting guns, 50 tons *or* 25 tons	1	To lift breech ...	According to weight of gun.
Frames, crab, hoisting guns, 50 tons, *or* 25 tons	1	Use with crab.	
Woolwich Section, No. 18.			
Gaskets, crab	1	To stopper fall ...	For 6-in. fall.
Gyns, triangle, heavy, tackles ...	1	To lift breech.	
Lashings, tarred, 2½-in. 5 fathoms	2	To secure crab.	

Mounting and Dismounting by Box-Beam Suspended from Roof of Casemate. (As at Spitbank Fort.)—18 to 47 tons.

List No. 8.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Apparatus, lifting guns, Hurst pattern, Bolts, bent ...	2	To suspend gun to box-beam	3 ft. × 2 in.
Boxes, beam ...	1		
Plates, washer	2	Connect bent bolts and main screws	18 in. × 7 in. × 1½ in.
Screws, main	2	To connect beam to roof of casemates.	5 ft. × 3 in.
Stands, hydraulic jack ...	2	To steady the jack.	2ft. × 2ft. × 1ft. 8½ in.
Tommies, bottom nut ...	2	For bottom nut of main screw.	
Jacks, lifting, hydraulic, Tangye's, 22½ tons*	2		

* See footnote * to List No. 6, page 100.

Appendix I—*continued.*

List No. 8—*continued.*

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 14.			
Handspikes, common, 7 feet ...	6		
Levers 14 feet	2		
Levers 12 ,, ...	2		
Levers 8 ,, ...	1		
Woolwich Section, No. 18.			
Cordage, hawser, 3-strand, tarred, 4½ inch ... ... fms.	6	To support rear of carriage, with 2 luff tackles.	Or one 4½ in. parbuckling rope.
Ropes, drag, heavy...	6		
Selvagees, ordinary	6		
Tackles gun, 3 in. white rope	2	For lifting front of carriage.	
Tackles luff, 14 fathoms ...	2		
Woolwich Section, No. 19.			
Planks, moving guns, half, 6 ft. × 12 in. ...	4		
Planks, moving guns, whole, 10 ft. × 12 in. ...	4		
Scotches large	6		
Scotches medium	6		
Scotches small	6		
Skids 6 ft. × 12 in. square ...	8		
Skids 4 ft. × 12 in. ,, ...	8		
Skids 3 ft. × 9 in. × 6 in. ...	12		

N.B.—Short lengths of ½-inch chain (about 4 fathoms each) will be found useful when hoisting the carriage by tackle made fast to the box-beam.

Only 38-ton guns are fitted with studs to the trunnions, for the loop of the box-beam.

Mounting and Dismounting Heavy Ordnance in Low-Roofed Casemates less than 9 feet 6 inches in height. (As at Sliema Point Battery, Malta; and Seaforth Battery, Mersey Defences.)—18 to 47 tons.

List No. 9.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Apparatus, lifting guns, Sliema pattern, bolts, bent, cascable ...	1	To fit round cascable.	3 ft. × 2 in.
Apparatus, lifting guns, Sliema pattern, bolts, bent, trunnion...	2	To fit round trunnion.	2 ft. 9 in. × 2 in.
Apparatus, lifting guns, Sliema pattern, pins, top nut ...	3	For top nut of main screws.	
Apparatus, lifting guns, Sliema pattern, plates, washer, cascable ...	1	Connect bent bolts and main screws.	22 in. × 9 in. × 4¼ in.
Apparatus, lifting guns, Sliema pattern, plates, washer, trunnion...	2		18 ,, × 9¼ ,, × 4 ,,
Apparatus, lifting guns, Sliema pattern, plates, supporting washer plates, cascable	2	... ...	21 in. long.
Apparatus, lifting guns, Sliema pattern, plates, supporting washer plates, trunnion	4	... ...	22½ ,, ,,
Apparatus, lifting guns, Sliema pattern, screws, main, cascable	1	Connects the washer plates.	2 ft. 5¾ in. × 3 in.
Apparatus, lifting guns, Sliema pattern, screws, main, trunnion	2		
Apparatus, lifting guns, stands, hydraulic jack ...	2	For steadying the jack.	2 ft. × 2 ft. × 1 ft. 8½ in.
Apparatus, lifting guns, tommies, bottom nut	3	For bottom nut of main screws.	
Jacks. lifting, hydraulic, Tangye's, 22½ tons*	2		

* See footnote * to List No. 6, page 100.

N.B.—For bringing the gun into position, *see* Lists 3 and 4, as required.

Appendix I—*continued.*

Embarking and Disembarking, &c., by Heavy Sheers.
18 to 47 tons.

List No. 10.

Name of Store.	For raising guns of		Remarks.
	35 to 47 tons.	18 to 25 tons.	
Woolwich Section, No. 2.			
Axes, pick, heads, 6½ lbs.	4	4	
Axes, pick, helves, 34½ inches ...	4	4	
Drivers, pile, Swiss	3	3	
Mauls, iron-hooped	12	12	For driving pickets.
Posts, picket, 8-feet	32	12	For holdfasts.
Posts, picket, 5 ,, ...	20	12	
	—	12	Holdfasts for foot tackles of derrick.
Shovels, universal	6	6	
Woolwich Section, No. 10.			
Chains, sheers, heavy, 70 feet, 1½-inch, 38-ton guns	2	—	For holdfasts for standing blocks of guys.
Chains, sheers, heavy, 70 feet, 1½ ,, 25 ,, ,,	—	2	For holdfasts.
Chains, sheers, heavy, 70 feet, 1 ,, ...	2	—	For leading blocks at holdfasts.
	—	2	For holdfasts.
Chains, sheers, heavy, 70 feet, ¾ ,, ...	4	—	For holdfasts, as required.
Crabs, hoisting guns*, 50 tons	4	4	2 for main tackles 2 ,, guys ... } 25- to 47-ton guns.
Crabs, hoisting guns*, 25 ,, ...	—	4	2 for main tackles 2 ,, guys ... } 18-ton guns.
Frames, crab, hoisting guns, 50 tons	4	4	Use with crabs.
Frames, crab, hoisting guns, 25 ,,	—	4	
Guys, heavy sheers†, 7-inch (lengths of 30 ft.)	8	—	Ropes, wire 6-in. in lieu.
Guys, heavy sheers†, 5½ ,, ,,	—	6	,, ,, 5½ ,, ,,
Shackles, lifting 38-ton guns ...	1	—	For lifting the breech with 35 and 38-ton guns.
Shackles, sheer, heavy	—	4	Capable of taking 18-in. blocks at holdfasts.
Sheers, without tackle, heavy, 70 feet, set	1	—	Fitted with head bolt and chains. For main tackles.
Shoes, sheer, 4 ft. 6 in. × 3 ft. 6 in.	2	2	For feet of sheers.
Shoes, sheer, 3 ft. 6 in. × 2 ft. 6 in.	1	1	For foot of derrick.
Thimbles, sheer, 9-in. rope	—	4	For use with guy straps (9-inch) and main tackles.†
Woolwich Section, No. 11.			
Grease, Field's‡ ... ... lbs.	6	6	

---

* With 45 and 47-ton guns 2 extra crabs, iron, hoisting guns, 25 tons, will be required with messengers to reinforce the main fall crabs.

† If steel wire guys are supplied the sizes will be less.

‡ Black grease will be used in place of Field's grease at all foreign stations except British North America and St. Lucia.

Appendix I—*continued.*

List No. 10—*continued.*

Name of Store.	For raising guns of		Remarks.
	35 to 47 tons.	18 to 25 tons.	
Woolwich Section, No. 14.			
Capstans, crab	2	2	For hauling forward feet of sheers when raised or assisting crabs.
Woolwich Section No. 18.			
Blocks, wood, Bothway, treble, 21-inch ...	8	—	4 for main tackles, 4 for guys.*
18 ,, ...	—	8	4 for main tackles, 4 for guy tackles.
snatch ... 21 ,, ...	4	—	For altering lead of main tackle and guy runner falls.
18 ,, ...	2	4	For derrick and altering lead.
	—	2	For main tackle at foot of sheers.
15 ,, ...	—	2	Back guy of derrick.
Cordage, hawser, 3 strand, tarred, 2½-inch ... fms.	—	60	12 lashings of 5 fms. each.
tarred, *or* white, 1½-in. ,,	80	80	For anti-twisters.
white, 7-inch .. ,,	452	—	2 coils for main tackles. 2 ,, ,, guys.*
	56	—	With 47-ton guns, for messenger to reinforce crabs.
6 ,, ... ,,	—	452	2 coils for main tackles. 2 ,, ,, guys.*
	113	—	Back guy of derrick.
4½ ,, ... ,,	—	113	
	24	—	2 lashings of 12 fms. for lashing lower blocks of main tackles to spars.
4 ,, ... ,,	—	35†	Head lashing.
	169	169	Side guys of derrick.
3 ,, ... ,,	—	24	2 lashings for snatch blocks at foot of sheers.
	—	6	Lashing leading blocks to foot of derrick.
	80	—	8 lashings of 10 fms., lashing blocks on derrick.
2½ ,, ... ,,	—	9	Head lashing of derrick.
	—	8	2 pieces of 4 fms. each, for lashing blocks of tackles to derricks.
spun yarn, hemp, 3 thread, tarred lbs.	6	5	
Gaskets, crab	4	4	

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* If rigged with two back guys provision must be made accordingly.

† Not required for sheers which have the head fitted with iron bolt, wire guys, and hook and chain, for attaching main tackles.

Appendix I—*continued.*

List No. 10—*continued.*

Name of Store.	For raising guns of 35 to 47 tons.	For raising guns of 18 to 25 tons.	Remarks.
Woolwich Section No. 18—continued.			
Gyns, triangle, heavy, slings, gun, 16 feet ...	—	4*	2 for guy straps, 2 for main tackles.
Gyns, triangle, heavy, slings, gun, 3 ,, ...	—	2	For cascable and chase when lifting 25-ton guns.
Gyns, triangle, heavy, tackles	4	—	For foot tackles and moving feet of sheers.
Gyns, triangle, heavy, thimbles, sling, 16 feet	—	4	
Gyns, triangle, 16-feet, slings	2	—	For securing capstans.
	—	3	2 for foot tackles and 1 for head of derricks.
Gyns, triangle, 16-feet, tackles	2	—	For foot tackles of derricks.
	—	2	For foot tackles of sheers.
Lashings, tarred, 2½-in., 5 fms. ...	12	12	Lashing pickets, &c.
Ropes, drag, heavy	16	16	General purposes.
Selvagees, ordinary	24	24	General purposes.
Slings, rope, 12-inch, 4 ft. 4 in. long	1	—	For lifting chase.
	—	2	For cascable and chase when lifting 25-ton guns.
Slings, 6-inch, 5 ft. long	—	1	For use in erecting sheers.
Slings, 5 ,, ,, ,, ...	—	1	
Slings, 4 ,, ,, ,, ...	—	1	
Tackles, gun, 3-in., white rope ...	—	2	For foot tackles of derrick.
Tackles, luff, 14 fathoms	4	4	Runners for derrick guys, &c.
Woolwich Section No. 19.			
Planks, moving guns, whole, 10 ft. × 17 in., fir	20	8	For placing under coils of rope and for holdfasts.
Planks, moving guns, whole, 10 ft. × 17 in., oak	12	6	For placing under shoes or feet of sheers.
Rollers, ground, 6 ft. × 10 in. diameter	8	—	For moving spars and crab winches.
Skids† 14 ft. × 12 in. square, oak ...	2	2	For heavy holdfasts.
Skids† 6 ft. × 12 in. square	20	12	Skidding spars, &c.
Timber, spars, sheers and derricks ... 60 feet 20-inch ...	—	2	Sheer legs.
Timber, spars, sheers and derricks ... 50 ,, 15 ,, ...	1	—	For derricks.
Timber, spars, sheers and derricks ... 40 ,, 10 ,, ...	—	1	
Timber, spars, sheers and derricks ... 30 ,, ...	1	—	For securing across feet of sheers when moving them to the front.

* Not required for sheers which have the head fitted with iron bolt, wire guys, and hook and chain, for attaching main tackles.

† The estimate for skidding is merely approximate and must vary with the nature of the operation.

N.B.—The stores required for the holdfasts must in a great measure depend on local circumstances.

Should it be required to heel sheers, when raising 18 to 47-ton guns, at an angle greater than 15° from the perpendicular, they should be rigged with two guys on the side which has to take the weight at extreme heel.

This detail only makes provision for one back and one fore guy, and if two are required demands should be framed accordingly.

Appendix I—*continued.*

Gear for Landing Heavy Ordnance at Iron-clad Forts.
(As at Spithead and Plymouth Breakwater.)—18 to 47 tons.

List No. 11.

This gear is special, and supplied where required.

No other stores will be required, except for removing the guns when landed, for which see List No. 3.

Mounting and Dismounting Guns up to 25 tons, in Casemates 12 feet and under, when Yeatman Tackle is used—18 to 25 tons.

List No. 12.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Crabs, hoisting guns 25 tons ...	3	2 for muzzle tackle 1 for breech tackle	
Frames, crab, hoisting guns, 25 tons	3	Use with crabs.	
Jacks, lifting, hydraulic, Tangye's, 15 tons*	1		
Shackles, sling, mounting guns in casemate to 25 tons (2 to a set)	1 set		
Woolwich Section, No. 18.			
Blocks, tackle, mounting guns in casemates, 18-inch, cascable ...	1	Breech.	
18-inch, crown ...	1		
12 „ with special shackle	2	Muzzle ...	2 for muzzle straps.
12 „ with special shackle to swivel	2		2 for crown of arch.
Blocks, wood, Bothway, single, 12-inch	1	Runner tackle, for breech.	
Cordage, hawser, 3-strand, white, 6-inch (15 fms.)	1	Breech tackle	For falls of tackles.
4 „ (12 fms. 2 to a set)	1 set	Muzzle tackle	
4 „ (56 fms.)	1	Runner ...	
Gaskets, crab	3	Stoppering falls	1 for 6-inch fall. 2 for 4 „ „
Lashings, tarred, 2½-inch, 5 fathoms	6	Securing crabs.	
Slings, rope, wire, 3-inch	1	For chase	3 ft. 5 in.
Woolwich Section, No. 19.			
Skids, 3 ft. × 9 in. × 6 in. ...	6		

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* These jacks will be replaced by G.S. jacks of 20 tons, as the present stock becomes used up.

N.B.—Holdfasts will probably be required to secure the breech crab; the ringbolts in casemates will probably be sufficient for muzzle crab.

Appendix I—*continued.*

Gear for Mounting and Dismounting 38-ton Guns on Small Port Carriages.

(As at Plymouth Breakwater Fort, and Fort Cunningham, Bermuda.)

List No. 13.

Name of Store.	No. required.	For what purpose.	Remarks.
Woolwich Section, No. 10.			
Apparatus, lifting guns, small port pattern, bars, suspending, upper ...	1	For suspending long screw bolts	4 ft. 10 in. × 9 in. × 5 in.
Apparatus, lifting guns, small port pattern, bars, suspending, lower ...	1	For suspending the bent bolt that passes round cascable	2 ft. 8 in. × 8 in. × 5 in.
Apparatus, lifting guns, small port pattern, blocks	1	For fitting inside the bent bolt on top of cascable	1 ft. 4 in. × 11 in. × 5 in.
Apparatus, lifting guns, small port pattern, bolts, bent, upper bar ...	1	For connecting top bar to rear loop bolt in roof of casemate	1 ft. 4½ in. × 2 in.
Apparatus, lifting guns, small port pattern, bolts, bent, cascable ...	1	To fit round the cascable	2 ft. 5 in. × 2 in.
Apparatus, lifting guns, small port pattern, bolts, bars, connecting	2	For connecting upper and lower bars	5 ft. 3 in. × 2 in.
Apparatus, lifting guns, small port pattern, pads	1	To ensure a better bearing between the roof bolt and the bent bolt	$3\frac{1}{16}$ in. × $3\frac{1}{16}$ in. × ¾ in. average
Apparatus, lifting guns, stands, hydraulic, jack ...	2	For steadying the hydraulic jacks	2 ft. × 2 ft. × 1 ft. 8½ in.
Jacks, lifting, hydraulic, Tangye's, 22½ tons*	2		
Tommies	2	For screwing up nuts.	

* *See* footnote * to List No. 6, page 100.

Gear for Landing Carriages, Slides, &c., at Sea Forts.

List No. 14.

This gear is special, and supplied where required.

The only stores required with it are one or two sets of heavy tackle, 18-inch blocks, 6-inch fall.

Appendix I—*continued.*

Distribution List of Special Gear and Stores for Landing, Transporting, Mounting, and Dismounting Guns of 18 tons and upwards (except 100 tons).

District.	Sub-District or Work.	No. of List as laid down at pages														Remarks.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Home.																
Cork ...	General use...	...	...	1	1	1	...	1	...	...	...	...	1	...	...	
Dublin ...	General use...	...	...	1	...	1	...	...	...	...	1	...	...	...	...	
Eastern ...	LandguardFt.	...	...	1	...	...	...	...	1	...	...	...	1	...	...	
N. Western	Seaforth Bat.	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Scottish ...	Firth of Forth Batteries	...	...	...	1	1	...	...	...	...	...	...	...	...	...	
S. Eastern	Dover... ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	
	Newhaven ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	
Southern	General use...	...	...	1	...	...	...	...	...	...	...	1*a*	...	1	...	
	Portsmouth	...	...	...	1	1	...	1	...	...	...	...	...		...	
	Spithead ...	...	...	...			...		1	...	...	...	...		3	Spitbank, No Man's Land, and Horse Sand.
	Needles ...	...	...	...	1	...	1		...	...	...	...	...		...	
	Isle of Wight	...	...	...		...		...	...	...	...	...	...		...	
	Portland ...	...	...	...	1	1	...	...	1	...	...	...	1		1	
	Nothe Fort ...	...	...	...	...	..	1	...	...	...	...	...	...		...	
Thames ...	General use ...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
	Sheerness ...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	
	Thames Forts	...	...	...	1	...	1	...	...	...	...	...	1	...	...	
	Isle of Grain	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
Western	General use...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	
	Plymouth ...	...	...	...	1	1	...	1	...	...	...	...	...		1	
	Pembroke ...	...	...	...	1	...	...	...	...	...	...	...	1		...	
Woolwich Arsenal	... ...	2*	1	...	...	...	1	...	...	1	2†	...	...	...	...	For general use, and will be demanded on loan as required.
Abroad.																
Bermuda	General use...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	
	Fort Cunningham	...	...	...	...	...	...	...	...	...	...	...	...	1	..	
C. of G. H.	Table Bay......	1	...	1	...	1	...	...	...	...	1	...	...	...	...	
Ceylon ...	Colombo	...	...	1	...	...	...	...	...	...	...	...	...	...	..	
	Trincomalie...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
Gibraltar ...	General use...	...	...	1	1	1	1	1	1	...	...	...	1	...	...	
Halifax, N.S.	General use ...	...	...	1	1	...	...	1	...	...	1	...	...	...	...	
	York Redoubt	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
Hong Kong	... ...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	
Jamaica ...	... ...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	
Malta	General use...	...	1	1‡	1	1	1	1	...	...	...	...	1	...	...	
	Sliema Fort ..	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Mauritius ...	... ...	...	...	1	...	1	...	...	...	...	1	...	...	...	...	
Sierra Leone	... ...	...	...	1	...	1	...	...	...	...	1	...	...	...	...	
Straits Settlements	Singapore ...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	
St. Helena	... ...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	
St. Lucia ..	... ...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	

* One set is composed of two short trucks, made for use at Seaforth.

† The 2 sets are fitted with special head and feet gear, tackle, chain, guys, and 25-ton crabs. Sufficient spars in addition are in store.

‡ Two sleighs.

a Common to ironclad forts at No Man's Land, Horse Sand, Spitbank, and Portland and Plymouth Breakwaters. It will be kept in store at Portsmouth in readiness for service at short notice.

APPENDIX II.

RANGE FINDERS.

APPENDIX II.

RANGE-FINDERS.

DEPRESSION RANGE-FINDERS.

(*Referred to in paragraph* 58.)

LIST of Coast Batteries having an elevation of 30 feet, and upwards, above high-water mark, for which Depression Range-Finders are allowed.

District and Work.	Description of Instrument.						Remarks.
	Mark I or II.	Mark IA or IIA.	Mark IB or IIB.	Mark IC or IIC.	Mark ID.	Special.	
57 / Gen. No. / 7077 HOME.							
BELFAST.							
LOUGH SWILLY—							
NED'S POINT FORT	..	1	..	..	..	..	
DUNREE FORT	..	..	1	..	..	..	
LENAN HEAD	..	..	2	..	..	..	
DUNREE HILL	..	..	..	2	..	..	
INCH FORT	..	1	..	..	..	..	
CORK.							
Fort Camden—							
Right Upper Battery	1	..	..	..	..	..	
Left Upper Battery	..	1	..	..	..	..	

Fort Carlisle—							
Rupert's Tower Battery	..	..	1	..	..	..	
No. 1 Battery	..	1	..	..	..	..	
„ 4 „	2	..	..	..	..	..	1 for C.O. Station.
Fort Westmoreland	3	..	..	..	..	..	
Instruction	1	..	..	..	..	..	
Bearhaven—							
Western Entrance	..	..	..	..	..	..	Marks of instruments not yet decided on.
Lonehort Battery	..	..	..	..	..	..	
Rerrin Battery	..	..	..	..	..	..	
EASTERN.							
Shotley Point Battery	..	3	..	..	..	..	
Landguard Fort	..	..	..	..	3	..	
Landguard Wing Battery	..	..	..	..	1	..	
Beacon Hill Battery	..	..	..	..	1	..	
Instruction	..	..	..	..	1	..	
GUERNSEY.							
Castle Cornet	..	1	..	..	..	..	
57 / Guernsey / 1545 Clarence Battery	..	1	..	..	..	..	
JERSEY.							
Elizabeth Castle	1	..	..	..	..	..	
South Hill Redoubt and Point de Pas Tower	..	..	1	..	..	..	
NORTH-EASTERN.							
Tynemouth Castle	..	2	..	..	..	..	
Lighthouse Battery	..	..	..	..	1	..	
57 / Beverley / 266 Spanish Battery	..	..	..	..	1	..	Specially graduated.
Cemetery Battery	..	..	..	..	1	..	
Paull Point Battery	..	..	..	..	1	..	

APPENDIX II—*continued.*

District and Work.	Description of Instrument.						Remarks.
	Mark I or II.	Mark IA or IIA.	Mark IB or IIB.	Mark IC or IIC.	Mark ID.	Special.	
NORTH-WESTERN.							
57 / Liverpool / 916 Seaforth Battery	..	..	..	..	1	..	
Perch Rock Battery	..	..	..	..	1	..	
SCOTTISH.							
Inchkeith—							
No. III Guns	1	..	..	..	..	..	
,, VI ,, ...	1	..	..	..	..	..	
,, I and II Gun	..	1	..	..	..	..	
,, VII Gun	1	..	..	..	..	..	
57 / Edinburgh / 3115 / 7615 Kinghornness	..	2	..	..	..	..	
Leith Fort—for Instruction ..	..	1	..	..	..	..	
School of Instruction, Leith Fort	..	..	..	..	1	..	
261 SOUTHERN.							
Southsea Castle	..	..	..	..	2	..	
Lumps Fort	..	..	..	..	1	..	
Eastney Batteries	..	..	..	..	2	..	
Fort Cumberland	..	..	..	..	2	..	
Browndown Battery	..	..	..	..	1	..	
Stokes Bay Lines	..	..	..	..	1	..	
Fort Gilkicker	..	..	..	..	2	1§	§Old Pattern P.F. for instruction.
Horse Sand Fort	..	..	..	..	1	..	

No Man's Land Fort	..	..	..	..	2	..	
Spitbank Fort	..	..	..	..	1	..	
St. Helen's Fort	..	..	..	..	2	..	
Instruction—							
Gosport	..	..	..	..	1	..	
Portsmouth	..	..	..	..	2	..	
Isle of Wight—							
Needles Battery	..	..	..	1	..	1	
Hatherwood	..	..	..	1	..	..	
Warden Point	2	..	..	..	..	..	
Cliff End Battery	2	..	..	..	..	..	
Hurst Castle	..	..	..	..	3	..	
Sandown Fort	..	..	..	..	1	..	
Sandown Barrack Battery	1	..	..	..	..	..	
Puckpool Battery	..	..	..	..	1	..	
Instruction, Western Forts ..	1	..	..	..	..	..	
„ Sandown Fort ..	..	..	..	..	1	..	
Weymouth—							
Camp of Instruction, Golden Hill	..	..	..	1	..	..	
East Weir Batteries "A" ..	..	..	..	2	..	..	
East Weir Batteries "B" ..	..	..	..	1	..	..	
East Weir Batteries "C" ..	1	..	..	..	..	..	
East Weir Batteries "D" ..	..	..	..	1	..	..	
Verne Citadel	..	..	..	2	..	..	
Nothe Fort	..	2	..	..	..	..	
Breakwater Fort	..	..	..	..	2	..	
Instruction—							
Nothe Fort	..	1	..	..	..	..	
General—Weymouth District	..	..	..	1*	..	..	*Unserviceable At Verne Citadel.

57
Portsmouth
3747
57
I. of Wight
1680

APPENDIX 11—*continued.*

District and Work.	Description of Instrument.						Remarks.
	Mark I or II.	Mark IA or IIA.	Mark IB or IIB.	Mark IC or IIC.	Mark ID.	Special.	
SOUTH-EASTERN.							
East Demi-Bastion	..	..	..	1	..	..	
Shotyard Battery	..	..	..	1	..	..	
Hospital Battery	..	..	..	1	..	..	Observing Station for O.C.R.A.
Shoulder-of-Mutton Battery	..	..	1	..	..	..	
St. Martin's Battery	..	..	..	1	..	..	
South Lines	1	..	..	..	..	..	
Archcliffe Fort	..	1	..	..	..	..	
Newhaven	3	..	..	..	..	..	
Instruction	1	..	..	..	..	..	
THAMES.							
Coalhouse Fort	..	..	..	..	2	..	
Shornmead Fort	..	..	..	..	2	..	
Cliffe Fort	..	..	..	..	2	..	
Coalhouse Battery	..	..	..	..	1	..	
Tilbury Fort	..	..	..	..	3	..	
Barton's Point Battery	..	..	..	..	2	..	
Sheerness Lines	..	..	..	..	2	..	
New Tavern Fort	..	1	..	..	1	..	
Garrison Point Fort	..	..	..	..	2	..	Specially graduated.

57
Chatham
4033

	Grain Fort	..	3	..	..	..	..	
	Grain Wing Battery	..	..	..	..	1	..	Specially graduated.
	Slough Fort	..	2	..	..	..	..	
	Hoo Fort	..	..	..	..	3	..	
57 Sheerness 2502	Darnet Fort	..	..	..	..	2	..	
	Instruction	..	..	..	..	3	..	
	Western.							
	Plymouth—							
57 Devonport 6603	Bovisand Practice Battery	..	..	1	..	..	..	
	Fort Bovisand	..	1	..	..	..	..	
	Breakwater Fort	..	..	..	..	1	..	
	Fort Stamford	1	..	..	..	..	..	
	Picklecombe Fort	..	..	2	..	..	..	
	Maker Heights Battery	..	..	..	1	..	..	
	Staddon Heights Battery	..	..	..	1	..	..	
	Drake's Island	..	2	..	..	..	..	
	Frobisher Battery	..	..	..	1	..	..	
	Polhawn Battery	..	..	1	..	..	..	
	Penlee	..	..	..	2	..	..	
	Cawsand Bay Battery	..	..	1	..	..	..	
	Raleigh Battery	..	..	..	1	..	..	
	Whitsand Bay Battery	..	..	..	1	..	..	
	Instruction—Devonport	..	..	..	2	..	..	
7615 11	School of Instruction, Plymouth Citadel	3	..	..	..	..	..	
57 Bodmin 429	Falmouth—							
	St. Anthony's Head	..	..	1	..	..	..	
	Half Moon Battery	..	..	1	..	..	..	
	Pendennis Castle	1	..	..	..	..	..	

APPENDIX II—continued.

	District and Work.	Description of Instrument.						Remarks.
		Mark I or II.	Mark IA or IIA.	Mark IB or IIB.	Mark IC or IIC.	Mark ID.	Special.	
	WESTERN—*continued.*							
57/Dport. 7206	Severn Defences—							
	Breandown Battery	..	1	..	..	..	..	
	Flatholme—							
	Castle Rock Battery ..	..	1	..	..	..	..	
57/Gen. No. 7133	Well Battery	..	..	..	..	..	1	
	Lighthouse Battery ..	1	..	..	..	..	..	
	Steepholme—							
	Tombstone Battery.. ..	..	..	1	..	..	..	
	Summit Battery	..	..	..	..	..	1	
	Lavernock	..	..	1	..	..	..	
	Pembroke—							
	Chapel Bay Battery	..	..	2	..	..	..	
	Stack Rock	..	3	..	..	..	..	
	South Hook Battery	2	..	..	..	..	..	
	Popton Point	..	2	..	..	..	..	
	Hubberstone	..	2	..	..	..	..	
	St. Catherine's Fort	1	..	..	..	..	..	
	West Blockhouse Battery	..	1	..	..	..	..	
	Instruction	1	1	..	..	..	..	

ABROAD.

BERMUDA.

57
Bermuda.
4951

Fort Cunningham	1	..	..	..	..	..
Alexandra Battery	..	..	..	..	2	..
Fort Albert	..	..	1	..	..	..
Fort Catherine	..	..	..	..	3	..
„ Victoria	..	..	3	..	..	..
„ George	2	..	..	..	..	..
Whale Bay Battery	..	..	1	..	..	..
Ireland Island	..	..	..	..	4	..
Fort Langton	1	..	..	..	..	..
Instruction	1	..	..	..	..	..

CAPE OF GOOD HOPE.

Table Bay—						
Amsterdam Battery	..	..	..	..	1	..
Fort Knokke	..	..	..	..	1	..
Wynyard Battery	..	2	..	..	..	..
Lion Battery	..	..	..	1	..	..
Sea Point Battery	..	..	1	..	..	..
Instruction	..	..	..	..	1	..
Simon's Bay—						
Cemetery Battery	..	1	..	..	..	..
Lower North Battery	..	1	..	..	..	..
Upper North Battery	..	..	..	1	..	..
Noah's Ark Battery	1	..	..	..	..	..
Instruction	..	1	..	..	..	..

APPENDIX II—*continued.*

District and Work.	Description of Instrument.						Remarks.
	Mark I or II.	Mark IA or IIA.	Mark IB or IIB.	Mark IC or IIC.	Mark ID.	Special.	
CEYLON.							
Colombo—							
Battenburg Battery	..	..	..	..	1	..	
Enkhuysen	..	..	..	..	1	..	
Klippenburg and Guard Batteries	..	..	..	..	1	..	
Mutwall Point	..	..	..	..	1	..	
Galle Face	..	..	..	..	1	..	
Instruction	..	..	..	..	1	..	
Trincomalie—							
Regent's Battery	1	..	..	..	..	..	
Ridge Battery	..	..	1	..	..	..	
Great Sober Island—Arthur Battery	1	..	..	..	..	..	
Fort Frederick—							
Flagstaff Battery	..	..	1	..	..	..	
Eastern ,,	1	..	..	..	..	..	
Portugese Bastion and Ostenburg	..	1	..	..	..	..	
Cavalier and Citadel	1	..	..	..	..	..	
West Battery	..	1	..	..	..	..	
Instruction	..	..	1	..	..	..	

	CHINA.									
	Lymoon, West	..	..	..	1	..	..	..	..	..
	,, Central	..	..	..	..	..	1	..	..	..
	,, Redoubt	..	..	..	2	..	..	..	..	..
	,, Reverse	..	..	..	..	1	..	..	..	..
	North Point	..	..	..	2	..	..	..	..	..
	Victoria Battery	..	..	..	..	..	..	1	..	..
	Kowloon Dock	..	..	..	2	..	..	..	..	..
	,, East	..	..	..	..	..	1	..	..	..
	,, West	..	..	..	..	2	..	..	..	..
	Stonecutters—									
	West	..	..	..	..	..	3	..	..	..
57 H. Kong. 9906	Central	..	..	..	..	..	2	..	..	..
	East	..	..	..	1	..	..	..	..	..
	Belcher, Upper	..	..	..	..	..	2	..	..	..
	,, Lower	..	..	..	..	..	2	..	..	..
	Fly Point	..	..	..	..	..	1	..	..	..
	Instruction	..	..	..	5					
57 Gibraltar 6950	GIBRALTAR.									
	Signal Station	..	..	..	..	..	..	..	..	2
	Rock Battery	..	..	..	..	..	..	..	..	1
	O'Hara's Tower	..	..	..	..	..	..	..	..	1
	Lord Airey's Battery	..	..	..	..	..	..	..	..	1
	Devil's Gap Battery	..	..	..	..	..	..	1	..	..
	Calpe Battery	..	..	..	..	..	..	2	..	..
	Governor's Look Out	..	..	..	..	..	..	..	..	1
	Farringdon's Battery	..	..	..	..	..	..	..	..	1
	Prince Albert's Front	..	..	..	..	..	..	..	1	..
	King's Bastion	..	..	..	..	..	..	..	1	..
	Wellington Front	..	..	..	..	..	..	..	1	..

APPENDIX II—*continued.*

District and Work.	Description of Instrument.						Remarks.
	Mark I or II.	Mark IA or IIA.	Mark IB or IIB.	Mark IC or IIC.	Mark ID.	Special.	
GIBRALTAR—*continued.*							
South Bastion	..	..	..	..	1	..	
Victoria Battery	..	2	..	..	..	..	
Prince of Wales' Battery	2	..	..	..	..	..	
Napier Battery	..	1	..	..	..	..	
Alexandra Battery	..	..	..	..	1	..	
Windmill Hill Batteries Genista Battery	..	..	..	1	..	..	
57 Gibraltar. 7177 Windmill Hill Batteries West	..	..	..	1	..	..	
Windmill Hill Batteries South	..	..	..	2	..	..	
Buffadero Heights	..	..	..	1	..	..	
Jews' Cemetery	..	..	..	1	..	..	
Princess Royal Battery	..	..	..	1	..	..	
Prince George's Battery	1	..	..	..	..	..	
Europa Hutment Battery	1	..	..	..	..	..	
Harding's Fort	1	..	..	..	..	..	
Instruction	1	..	..	1	..	..	
HALIFAX, N.S.							
57 N. Scotia. 4510 Fort George	..	..	2	..	..	..	
,, Clarence	..	2	..	..	..	..	
,, Charlotte	..	3	..	..	..	..	

Ives Point Battery	2	..	..	..	..	..
Fort Cambridge	..	2	..	..	..	..
„ Ogilvie	2	..	..	..	..	..
York Redoubt	..	..	2	..	..	..
Fort McNab, North	..	1	..	..	..	..
„ „ South	..	1	..	..	..	..
... Instruction 4540	..	..	1	..	..	..
JAMAICA.						
Apostles' Battery	1	..	..	..	..	..
Fort Clarence	..	..	1	..	..	..
Fort Victoria	..	..	..	..	2	..
Instruction	..	..	1	..	..	..
MALTA.						
Valetta—						
St. Andrew's Bastion	1	..	..	..	..	..
St. Elmo—						
East	..	1	..	..	..	..
West	..	1	..	..	..	..
St. Lazarus' Bastion	1	..	..	..	..	..
Land fronts—						
Fort Musta	..	..	..	1	..	..
57 Sliema—						
Malta 275 St. Anthony's Bastion, Fort Manoe	..	1	..	..	..	..
Cambridge Battery	..	1	..	..	..	..
Sliema Point Fort	..	..	..	..	1	..
Garden Battery	..	..	..	..	1	..
Pembroke—						
Pembroke Fort	..	..	1	..	..	..
Madalena Fort	..	..	..	2	..	..
Spinola East	..	1	..	..	..	..

APPENDIX II—*continued.*

	District and Work.	Description of Instrument.						emarks.
		Mark I. or II.	Mark IA. or IIA.	Mark IB. or IIB.	Mark IC. or IIC.	Mark ID.	Special.	
	MALTA—*continued.*							
	Ricasoli—							
	Fort Ricasoli East	..	1	..	..	..	..	
	Fort Ricasoli West	..	1	..	..	..	..	
	Fort Ricasoli Left Ravelin	1	..	..	..	..	..	
	Rinella Battery	..	1	..	..	..	..	
	San Leonardo—							
	San Rocco Fort	1	..	..	..	..	..	
	San Leonardo Fort	..	..	2	..	..	..	
	Della Grazia	..	2	..	..	..	..	
	Delimara—							
57 Malta 1550	Delimara Fort	1	..	..	..	..	..	
	Wolseley Battery	..	..	1	..	..	..	
	Fort Ta Silc	..	..	1	..	..	..	
57—Gn. No. 7434	Instruction	1	2	..	..	..	..	
	Reserve	1	1	1	..	1	..	
	ST. HELENA.							
	Munden's Point Battery	1	..	..	..	..	..	
	Munden's Hill	..	..	..	2	..	..	
57 St. Helena 1844	Ladder Hill	..	..	..	..	..	1	
	Ladder Hill, F.C.	..	..	..	..	..	1	

	ST. LUCIA.						
	Vigie	..	..	2	..	..	..
	Toc Bay	..	..	2	..	..	..
	Morne	..	..	..	..	..	2
	Instruction	..	..	1	..	..	..
	SIERRA LEONE.						
	Tower Hill Battery	..	..	..	1	..	..
57	King Tom Batteries	..	..	..	..	1	..
S. Leone	Falcon Bridge Battery	..	..	..	..	1	..
1538	Instruction	..	..	..	..	1	..
	STRAITS SETTLEMENTS.						
	Fort Connaught	1	..	3	..	..	..
	Mount Siloso	..	..	2	..	..	..
	Passir Panjang..	..	1	2	..	..	..
	Mount Palmer..	..	..	2	..	..	..
	„ Serapong	..	..	..	1	..	1
	Tanjong Katong	..	..	..	..	1	..
	Teregeh Point	..	1	..	..	..	..
	Instruction	..	..	1	..	..	..
	SHOEBURYNESS	1	2	..	..	4	..
7064	ROYAL MILITARY ACADEMY ..	..	..	1	..	..	..
789	ROYAL MILITARY REPOSITORY	1	..	..	..	..	..
	ARTILLERY COLLEGE	..	..	1	..	..	..
57	ESQUIMALT—						
Canada	Rodd Hill—						
703	2 Gun Battery	..	1	..	..	..	..
745	1 Gun Battery	..	1	..	..	..	..
	Macaulay Point	..	1	..	..	1	..

APPENDIX III.

STORES FOR LABORATORY INSTRUCTION.

List of Stations and No. of Sets per Station allowed for Instruction of Royal Artillery.

(*Referred to in paragraph* 90 *and pages* 606 *to* 608.)

District or Station.	No. of Sets.
Home.	
Channel Islands	3
Eastern District	1
Ireland	2
North-Eastern District	1
Royal Military Repository, Woolwich	1
School of Gunnery, Shoeburyness	1
North-Western District	1
South-Eastern District	2
Southern District	7
Thames District (Sheerness)	2
Western District	6
Scottish District (Leith Fort)	1
Abroad.	
Barbados (St. Lucia)	1
Bermuda	2
Cape	1
Ceylon	1
Gibraltar	1
Halifax	1
Hong Kong	1
Jamaica	1
Malta	2
Mauritius	1
Singapore	1
Sierra Leone	1
St. Helena	1

57
Gibraltar.
6580

APPENDIX IV.

MATERIALS ALLOWED FOR PACKING HYDRAULIC BUFFERS.

R.M.L., R.B.L., and S.B.B.L.

57
5
8320

Compression .... 12·5 inch to 7 inch.
Tension.... .... 12·5 inch casemate, dwarf, small port 7 ft. recoil, and medium, Nos. 4, 6, and 7.

(*See Regulations for Magazines, &c.*)

Articles.		Compression Buffers.		Tension Buffers.	
		First Supply for each Buffer.	Annual Supply for five Buffers.	First Supply for each Buffer.	Annual Supply for five Buffers.
Woolwich Section No. 11.					
Cement, mineralized*	lb.	¼	½	...	...
Oil, linseed, boiled*	pts.	⅛	¼	...	...
Rings, leather, packing, piston rod ...		...	...	1	5
Washers, leather, packing, caps		1†	5	2	10
Tallow, Russian	oz.	1½	3	1½	3
Woolwich Section No. 18.					
Flax, dressed*	oz.	1	2	...	...
Rope, cotton, white, 2-inch... ...	,,	2	4	4½	9

* Not for 12·5-inch.

† 2 for 12·5-inch compression buffers.

NOTE.—For leather washers and rings for B.L. mountings, *see* Component and Spare Part.

APPENDIX V.

TRAVERSING RACKS, TRAVERSING ARCS, AND POINTERS.

(*Referred to in paragraph* 72.)

Table of Traversing Racks.

Nature of Slide.			Radii. A.	Radii. C.	Radii. D.	Remarks.
			ft. in.	ft. in.	ft. in.	
B.L.	12-inch		14 5	...	...	
B.L.	8-inch, barbette		...	4 9	...	
R.M.L. 12.5-inch	casemate	6 feet recoil	14 5	...	...	
		7 feet recoil	15 5	...	...	
	dwarf	"C"	...	3 4·47	...	
		"D"	...	...	5 6	
	small port	6 feet recoil	14 5	...	...	
		7 feet recoil	15 5	...	...	
	7 feet parapet, "C" converted dwarf "C" converted casemate Mark III. Special; and converted small port		...	3 4·47	...	
R.M.L.	12-inch, 35 tons, dwarf "C"		...	3 4·47	...	
R.M.L.	9-inch, converted slide "N"		11 5·5	...	...	

Table of Traversing Arcs and Pointers for B.L. Mountings.

Nature of Service.			Arcs, traversing. No.	Radii. A	Radii. C	Radii. D	Pointers. No.
B.L.—				ft. in.	ft. in.	ft. in.	
13·5-inch			18	...	9 11	...	Special pointer.
12-inch upper tier			1 Mk. II.	19 4¼	...	...	2
10-inch	barbette	Mark I. "C"	16	...	7 9	...	1
		,, I. "D"	15	...	...	5 10	1
		,, II. and III.	25	...	9 5	...	1
	disappearing	,, I.	22	...	*7 11	...	Special pointer.
		,, II.	22	...	7 11	...	Special pointer.
		,, III.	24	...	10 9⅞	...	9 left. 10 right.
9·2-inch	barbette	,, I.	16	...	7 9	...	1
		,, II.	25	...	9 5	...	1
		,, III.	34	...	5 1·442	...	Special.
		,, IV.	33	...	5 10	...	Special.
	disappearing	,, I.	21	...	*7 2½	...	Special pointer.
8-inch barbette, Mark I.			19	...	6 4½	...	1
6-inch	,,	Mark I. and I*.	26	...	5 4½	...	Special pointer.
		,, II.	32	...	3 0½	...	Special.
6-inch Vavasseur C. P.		Mark I.	23	...	*3 4	...	Special pointer.
		special	35	...	7 9	...	Special.
6-inch disappearing		Marks I. and III.	15	...	5 10	...	1
		,, II. and II*.	15	...	5 10	...	3
		Mark IV.	15	...	5 10	...	4
5-inch Vavasseur		Mark I.	36	...	2 8	...	1
		,, II.	16	...	7 9	...	1
		,, III.	26	...	5 4½	...	5

* Double arcs.

57
Dover
3835

Appendix V—*continued.*

Table of Traversing Arcs and Pointers for R.M.L. and R.B.L. Mountings.

Nature of Service.	Arcs, traversing.				Pointers.	
	No.	Radii.			No.	
		A	C.	D		
R.M.L.		ft. in	ft. in.	ft. in.		
17·72-inch	29	...	5 10·625	...	Special pointer.	
12·5-inch casemate 6 and 7 feet recoil	1 Mk. II.	19 4¼	...	...	1	
7 foot recoil*	31	L.P. 19 4¼ R.P. 19 1⅜	... ...	... ...	1	57 Dover 3835
dwarf "C" and "D" 7 ft. parapet "C" and converted small port	17	...	6 9	6 9	1	
12-inch, 35-ton, dwarf "C"	17	...	6 9	...	1	
11-inch or 12-inch 25 tons casemate	5 Mk. II.	21 4¾	...	...	5	38407
dwarf "A" ...	5 Mk. II.	21 4¾	...	...	1	Equip.
,, "C," and 7 ft. parapet "C"	16	...	7 9	...	1	1800
10·4-inch	27	14 6	...	...	1	
10-inch casemate, and dwarf "A," except casemate side, and to work within length, Mark I.	5 Mk. II.	21 4¾	...	...	1	
10-inch casemate. side, and to work within length, Mark I.	5 Mk. II.	21 4¾	...	...	5	
dwarf "C" and 7 ft. parapet "C."	16	...	7 9	...	1	
casemate on turntables ...	20	R.P. 17 4½ L.P. 17 1⅝	... ...	... ...		
9-inch casemate, except single plate	6 Mk. II.	20 0	...	...	5	
casemate, single plate and dwarf "A."	6 Mk. II.	20 0	...	...	1	
dwarf "C" and "D," and 7 ft. parapet "C."	15	...	5 10	5 10	1	
high angle Mark I. ...	28	...	6 0	...	Special pointer.	
,, II. ...	19	...	5 10	...	1	
,, III.&IV.	15	...	5 10	...	8	
Moncrieff, Mark II., "D"	16	...	...	7 9	1	
-inch casemate, Mark I.	6 Mk. II.	20 0	...	...	5	
dwarf "C"	17	...	6 9	...	1	
Moncrieff Mark I., "D"	17	...	...	6 9	5	
,, II., "D"	17	...	...	6 9	1	
R.B.L.						
7-inch Moncrieff, Mark II.	15	...	...	5 10	5	
Slides, L. medium—						
No. 9 (when so fitted)	17	...	6 9	...	1	
,, 13 ,, ,, ...	27	14 6	...	...	5	
,, 16 *with* traversing gear ...	16	...	7 9	...	1	... 3835
,, 17 (when so fitted)	27	14 6	...	...	1	
,, 23 and 24, also No. 16 *without* traversing gear	30	11 11	...	...	5	

APPEN

TABLE OF RACERS, PIVOT

(1) RACERS AND PIVOT

(*Referred to in*

Nature of Slide.			Description of Racer.	
12-inch	upper tier		steel, without flange	1
			steel flanged	2
	lower ,,		steel, without flange	3
10-inch	barbette	Mark I "C"	steel coned	4
		Mark I "D"	,, ,,	5
		Mark II	,, ,,	6
		Mark III	,, ,,	7
	disappearing	Mark I	combined roller path, clip ring, and traversing rack	8
		Mark II	steel flanged	9
		Mark III	,, ,, inner	10
			outer	11
9·2-inch	barbette	Mark I	steel, coned	12
		Mark II	,, flanged	13
	disappearing	Mark I	combined roller path, clip ring, and traversing rack	14
		Mark II	steel, flanged	15
8-inch, barbette, Mark I			racer and traversing rack combined, rear	16
			segment roller ring, ... front	17
6-inch, barbette, Mark I			combined roller path, clip ring, and traversing rack	18
6-inch, V.C.P., Mark I			pivot plate, with roller path	19
6-inch, disappearing, Mark I			steel, flanged	20
6 inch ,, ,, II & II*, III & IV.			combined roller-path, clip ring, and traversing rack	21

DIX VI.

BLOCKS, AND PIVOT PLUGS.

Blocks for B.L. Guns.

paragraph 72).

	Racers.					Pivot Block.		
	Radii.					No.	Total Height.	Pivot Plugs.
	A.		C.	D.				
	Front.	Rear.		Front.	Rear.			
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.		ft. in.	
1	9 2	—	—	—	—	—	—	The plugs are practically a part of the block.
2	—	18 0	—	—	—	—	—	
3	9 2	21 2	—	—	—	—	—	
4	—	—	5 11·13	—	—	23	3 10·423	
5	—	—	—	9 6	3 8·25	24	10·5	
6	—	—	10 10	—	—	29	4 10·584	
7	—	—	10 10	—	—	30	5 11·25	
8	—	—	6 0	—	—	—	—	
9	—	—	14 6	—	—	25	1 9	
10	—	—	9 9·25 }	—	—	—	5 9	
11	—	—	10 2·75 }					
12	—	—	5 11·13	—	—	22	3 10·423	
13	—	—	10 10	—	—	29	4 10·423	
14	—	—	5 6	—	—	—	—	
15	—	—	13 6	—	—	25	1 9	
16	—	— }	5 6·05	—	—	27	1 11·6	
17	—	— }						
18	—	—	3 9	—	—	—	—	
19	—	—	2 3·25	—	—	—	—	
20	—	—	5 0	—	—	26	1 9	
21	—	—	4 4	—	—	—	—	

Appendix VI

(1) RACERS, PIVOT BLOCKS, AND PIVOT

Nature of Slide.			Description of Racer.	
R.M.L.				
12·5-inch	casemate, and small port 7 feet recoil, and casemate, 6 feet recoil, Mark III special		steel coned, without flange	1
	casemate, 6 feet recoil, Mark II and III, and small port, 6 feet recoil		,, ,, ,, ,,	2
	dwarf, "C," 7 feet parapet "C," and converted small port		,, ,, ,, ,,	3
	dwarf "D"		,, ,, ,, ,,	4
12-inch, 35 tons, dwarf "C"			,, ,, ,, ,,	5
11-inch, or 12-inch, 25 tons	casemate, and dwarf "A"		steel flanged	6
	dwarf "C," and 7 feet parapet "C"		,, ,,	7
10·4-inch	...		iron flanged	8
10-inch	casemate, dwarf "A," small port		steel flanged	9
	dwarf "C," and 7 feet parapet "C," Mark I		,, ,,	10
	7 feet parapet "C," Mark II		,, ,,	11
	dwarf "D"		,, ,,	12
9-inch	casemate, and dwarf "A"		iron flanged	13
	dwarf	"C," and 7 feet parapet "C," Mark I	,, ,,	14
		7 feet parapet "C," Mark III	,, ,,	15
		"D"	,, ,,	16
	high angle	Mark I	combined roller path, clip ring, and traversing rack	17
		,, II	steel angle	18
		,, III	combined roller path, clip ring, and traversing rack	19
	Moncrieff, Mark II, "D"		iron, flat	20
	converted slide N		,, ,,	21
7-inch	casemate, and dwarf "A"		,, ,,	22
	dwarf "C"		,, flanged	23
	Moncrieff	Mark I, "D"	,, without flange	24
		,, II, "D"	,, flat	25
	6½ ton, converted slide N		...	26
	dwarf, "D"		iron flat	27
64-pr., Moncrieff	Mark II, "C"		,, ,,	28
	,, II, "D"		,, ,,	29
R.B.L. 7-inch, Moncrieff, Mark II, "D"			,, ,,	30

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* 24-pr. cast-iron S.B. guns are used as sockets for pivot plugs, the sizes given being 5·29 inches

† Casemate or dwarf.

—*continued.*

PLUGS FOR R.B.L. AND R.M.L. GUNS.

	Racers.					Pivot Block.		Pivot Plugs.				Remarks.
	Radii.					No.	Total Height.	No.	Length.	Diameter.	Material.	
	†A.		C.	D.								
	Front.	Rear.		Front.	Rear.							
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.		ft. in.		in.	ins.		
1	10 2	21 2	—	—	—	—	—	—	—	—	—	
2	10 2	20 2	—	—	—	—	—	—	—	—	—	
3	—	—	5 8	—	—	—	—	1	*8·5	5·82	steel	
4	—	—	—	8 0	3 8	—	—	1	*8·5	5·82	,,	
5	—	—	5 8	—	—	—	—	1	*8·5	5·82	,,	
6	8 0	18 0	—	—	—	—	—	—	—	—	—	
7	—	—	5 8	—	—	—	—	1	*8·5	5·82	steel	
8	—	‡12 10·88	—	—	—	28	3 5	—	—	—	—	
9	8 0	18 0	—	—	—	—	—	—	—	—	—	
10	—	—	5 8	—	—	1	4 9·625	1	*8·5	5·82	steel	
11	—	—	5 8	—	—	11	2 5·75	1	*8·5	5·82	,,	
12	—	—	—	9 0	3 0	—	—	1	*8·5	5·82	,,	
13	6 3	16 6	—	—	—	—	—	—	—	—	—	
14	—	—	5 5·75	—	—	2	4 4·75	1	*8·5	5·82	steel	
15	—	—	5 5·75	—	—	31	4 4·75	1	*8·5	5·82	,,	
16	—	—	—	9 0	2 3·75	2	4 4·75	1	*8·5	5·82	,,	
17	—	—	4 9	—	—	—	—	—	—	—	—	
18	—	—	5 5·75	—	—	12	2 10·058	—	—	—	—	
19	—	—	4 4	—	—	—	—	—	—	—	—	
20	—	—	—	11 10	6 2	6	2 11	6	13·5	4·0	steel	
21	5 1	13 6	—	—	—	5	3 8·75	5	13·5	3·0	,,	
22	6 3	16 6	—	—	—	—	—	—	—	—	—	
23	—	—	5 5·75	—	—	2	4 4·75	1	*8·5	5·82	steel	
24	—	—	—	8 35	5 8·5	—	—	—	—	—	—	Fixed plug.
25	—	—	—	9 10	5 7·5	7	1 11½	7	10·75	3·5	steel	
26	5 1	13 6	—	—	—	5	3 8·75	5	13·5	3 0	,,	
27	—	—	—	9 0	2 3·75	2	4 4·75	1	*8·5	5·82	,,	
28	—	—	6 10	—	—	8	2 0	8	9·5	2·5	,,	
29	—	—	—	8 11	4 8·5	8	2 0	8	9·5	2·5	,,	
30	—	—	—	8 11	4 8·5	8	2 0	8	9·5	2·5	,,	

for this nature; but 18-pr. cast-iron guns can also be used, pivot plugs being 7·5 inches long, and diameter, to suit.

‡ Special pivot.

Appendix

(1) RACERS, PIVOT PLUGS, AND PIVOT

Nature of Slide.	Description of Racer.	Radii of Racers.							
		*A.		B.		C.	D.		
		Front.	Rear.	Front.	Rear.	Central.	Front.	Rear.	
		ft. in.	ft in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	
Mediums, No. 1	iron, flanged	5 0	14 0	—	—	—	—	—	1
,, 2	,, ,,	5 0	14 0	—	—	—	—	—	2
,, 3	,, ,,	5 0	14 0	—	—	—	—	—	3
,, 4	metal, ,,	—	—	1 7·5	8 7·5	—	—	—	4
6	,, ,,	—	—	1 6	6 10	—	—	—	5
7	iron ,,	—	—	—	—	6 1	—	—	6
,, 8	,, ,,	5 0	16 6	—	—	6 1	—	—	7
,, 9	,, ,,	—	—	—	—	6 1	9 0	3 4·25	8
,, 10	,, ,,	5 0	14 0	—	—	—	—	—	9
,, 11	,, ,,	—	—	—	—	6 1	9 0	3 4·25	10
,, 12	,, ,,	5 0	16 6	—	—	—	—	—	11
,, 13	,, ,,	5 0	14 0	—	—	—	—	—	12
,, 14	,, ,,	5 0	16 6	—	—	—	—	—	13
,, 15†	,, ,,	—	—	—	—	—	—	—	14
,, 16	,, ,,	—	—	—	—	6 1	9 3	3 4·25	15
,, 17	,, ,,	5 0	16 6	—	—	—	—	—	16
,, 18	,, ,,	—	—	—	—	6 1	9 3	3 4·25	17
,, 19	,, ,,	5 0	16 6	—	—	—	—	—	18
,, 20	,, ,,	5 0	16 6	—	—	—	—	—	19
,, 21	,, ,,	5 0	16 6	—	—	6 1	—	—	20

---

* Casemate or dwarf.
† Fired from ground platform.

VI—*continued.*

BLOCKS FOR MEDIUM SLIDES "L."

					Pivot Plugs.				Pivot Block.	Remarks.
	E.		F.		No.	Length.	Diameter.	Material.	No.	
	Front.	Rear.	Front.	Rear.						
	ft. in.	ft. in.	ft. in.	ft. in.		in.	in.			
1	—	—	—	—	—	—	—	—	—	
2	—	—	—	—	—	—	—	—	—	
3	—	—	—	—	—	—	—	—	—	
4	—	—	—	—	10	5	2·5	steel	—	
5	—	—	—	—	11	7·5	2·0	,,	—	
6	10 8·25	2 2	12 10	2 2	3	5·75	4·0	,,	3	
7	10 8·25	2 2	12 10	2 2	3	5·75	4·0	,,	3	
8	10 8·25	2 2	12 10	2 2	3	5·75	4·0	,,	3	
9	—	—	—	—	—	—	—	—	—	
10	10 8·25	2 2	12 10	2 2	12	7·5	3·0	steel	*a*3 II	*a*Bushed.
11	—	—	—	—	—	—	—	—	—	
12	—	—	—	—	—	—	—	—	—	
13	—	—	—	—	—	—	—	—	—	
14	—	—	—	—	—	—	—	—	—	
15	10 8·25	2 2	12 10	2 2	4	7·5	3·0	steel	4	
16	—	—	—	—	—	—	—	—	—	
17	10 8·25	2 2	12 10	2 2	4	7·5	3·0	steel	*a*3 II	*a*Bushed.
18	—	—	—	—	—	—	—	—	—	
19	—	—	—	—	—	—	—	—	—	
20	10 8·25	2 2	12 10	2 2	3	5·7	4·0	steel	3	

APPENDIX VII.

CHEST, TOOL, FILLED, No. 3D.

(Armament Artificers.)

57
Gen. No.
5680

(*Referred to in paragraph* 182.)

Articles.						No.
Woolwich Section, No. 7.						
Chests, tool, empty, No. 3						1
Aprons, basil, brown						2
Braces	**ratchet**	18-inch				1
		18-inch, strong				1
		18-inch, strong, Drills	1½-inch			1
			1⅜ ,,			1
			1¼ ,,			1
			1⅛ ,,			1
			1 ,,			6
			⅞ ,,			6
			¾ ,,			6
			⅝ ,,			6
			½ ,,			4
			⅜ ,,			4
			¼ ,,			1
		18-inch, strong, Drills, tapping	1-inch			6
			⅞ ,,			6
			¾ ,,			6
			⅝ ,,			6
			½ ,,			3
			⅜ ,,			3
		Posts, 24-inch				2
	smiths					1
Callipers	10-inch				pair	1
	6 ,,				,,	1
Cans, oil, lubricating, G. S.						1
Chisels	cross-cut	8 inches × ⅜ inch				2
		7 ,, × ¼ ,,				3
	engraving					3
	hand, cold, ¾-inch × 8-inch					4
	rivet head					1
Cloth, emery, fine					sheets	6
Compasses, wing, 10-inch					pairs	1
Dividers, spring, 6-inch						1

57
Gen. No.
5680

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3D—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Drifts	brass, round		¾-inch × 9-inch	1
			1 „ × 9 „	1
	steel, round		¾ „	1
			⅞ „	1
			1 „	1
Drivers, screw, G. S., 12-in.				1
Files	bastard	flat	16-inch	2
			14 „	10
			12 „	2
			8 „	4
			6 „	3
		half-round	16 „	3
			14 „	4
			10 „	4
			8 „	4
			6 „	2
		knife	5 „	2
		round	16 „	2
			14 „	2
			12 „	4
			6 „	2
			4 „	2
		safe edge	16 „	3
			14 „	3
			8 „	2
			6 „	2
		square	16 „	1
			12 „	1
			10 „	2
		three-square	16 „	2
		warding	5 „	2
			cut on one side, 3½-in.	2
	saw, three-square	hand	6-inch	4
			5 „	4
		sash or dovetail	3½ „	4
		tenon	4½ „	4
	dead smooth	half-round	4 „	1
		safe edge	4 „	1
	rough, half-round		14 „	2
	second cut	half-round	14 „	2
		safe edge	14 „	2
			10 „	1
			6 „	1
			4 „	1

57
Cape
5711

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3D—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Files, smooth	half-round	14-inch		1
		8 ,,		2
		6 ,,		2
	safe edge	12 ,,		1
		8 ,,		2
		6 ,,		1
		4 ,,		1
Flatters, smiths				1
Fullers	bottom			1
	top			1
Hammers	fitters	48-oz., copper		1
		24 ,,		1
		8 ,,		2
	riveting, boiler makers	3½-lb.		2
		2½ ,,		2
Handles, file	large			8
	middling			10
	small			6
	swan neck			1
Holders, rivet head	large			1
	small			1
Irons, soldering, tinman's				1
Levels, spirit block, 12 inches				1
Plates, screw, 10 taps, 20-hole				1
Pliers	round nose		pairs	1
	side cutting, 7-inch		,,	1
Punches	centre, 4½-inch			2
	round, ½-in. × 10-in.			1
	smiths, cold			2
Rods, smiths, iron				4
Rules	armament artificers, 2-feet			1
	saddletreemakers			1
Saws	cutting, metal, 12-in.			1
	,, ,, blades 12-in. (spare)			2
Scribers				1
Snaps, riveting, rod	1⅝-in.			1
	1½ ,,			2
	1⅜ ,,			1
	1⅛ ,,			2
	1 ,,			1
	⅞ ,,			1
	¾ ,,			1
	⅝ ,,			1
	½ ,,			1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3D—*continued.*

Articles.	No.
Woolwich Section, No. 7—continued.	
Spanners, armament artificers, double ended, 1½-in. and 1⅜-in.	1
" " double ended, 1¼ " " 1⅛ "	1
" " double ended, 1 " " ⅞ "	1
" " double ended, ¾ " " ⅝ "	1
" " double ended, ½ " " ⅜ "	1
" " socket 1⅛-inch	1
" " socket, 1 "	1
" " socket, ⅞ "	1
" " socket, ¾ "	1
" " socket, ⅝ "	1
" " socket, ½ "	1
Squares, smiths, steel	1
Stakes, smiths	1
Stocks, drill, bevel wheel (with bits)	1
" " bits (spare) .... sets	1
Stones, oil, carpenters	1
Straight edge, steel, 2 feet....	1
Tongs, wheelers .... pair	1
Vices, hand 20-oz.....	1
" " 8 "	1
Woolwich Section, No. 18.	
Cloths, sponge	6
Woolwich Section, No. 29.	
Clinometers, Watkin	1
Miscellaneous.	
57 Gen. No. 5680 | **Handbooks,** military artificers	1
The undermentioned are not carried in the Chests, and will be separately demanded, charged, and accounted for.	
Woolwich Section, No 7.	
Chests, stocks and dies, Whitworth thread, 1⅛-in. to ¼-in., filled	1
Cramp, fitters, 5-inch	2
Grindstones F.S., 18-inch	1
" 24-inch	1
Lead, punching, 1⅜-inch × 9¼-inch × 16-inch .... piece	1‡
Plates, surface, 3′ × 1′ 9″, armament artificers	1
Straight edges steel 6 ft.	1
" " 4 ft.	1
Vices, standing, 80 lbs.* †	1

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* As these become unserviceable they will be replaced by the "Vice, standing, 80 lbs., with iron bench."

† An Engineer supply. ‡ To be provided locally.

Appendix VII—*continued.*

CHEST, TOOL, FILLED, No. 3J.

Wheelers, R.A., Garrison.

(*Referred to in paragraph* 182).

(Packed in two No. 3 chests and forming one set.)

	Articles.	No.
	Woolwich Section, No. 7.	
57	**Chests**, tool, empty, No. 3	2
Gen. No.	**Adapters**, brace	2
5680	**Adze**, carpenters' handles	2
45	heads	1
Gen. No.	**Aprons**, basil, brown....	3
7183	**Augers** shell 1½-inch	2
	1¼ "	2
	1⅛ "	2
	1 "	2
	⅞ "	2
	¾ "	2
	⅝ "	2
	½ "	2
	handles 18 "	2
	16 "	2
	13½ "	2
	12 "	2
	Awls .... blades, brad	48
	handle, brad.... large	6
	small	6
	Axes, hand, 3-lb	2
	Bags, tool, carpenters	1
	Bars, crow, 2-feet 3-inch	1
	Bevels, steel blade, 12-inch	2
	Braces, carpenters, bits, 24 to a set, consisting of—	
	Centre, 1⅛, 1, ⅞, ¾, ⅝, ½ and ⅜-inch .... two of each	14
	Countersink flat .... "	2
	rose .... "	2
	Dowling sash .... "	2
	Gouge, 7/16, ⅜, 5/16, ¼, 3/16 and ⅛-inch .... "	12
	Nose, ⅜, 5/16, ¼, 3/16 and ⅛-inch .... "	10
	Rimer, square .... "	2
	Screwdriver .... "	2
	Taper .... "	2
	Braces, smiths	2
	Buzzes ¾-inch	1
	⅝ "	1
	Callipers, 6-inch .... pairs	2
	Cans, oil, lubricating, G.S.	2
	Chisels, boxing .... large	1
	small	1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3J—*continued.*

Woolwich Section, No. 7—continued.

Articles.					No.
Chisels	firmer		1¼-inch		2
			1 ,,		2
			⅜ ,,		2
			¼ ,,		2
			⅛ ,,		2
	firmer, coach-makers'		1¾ ,,		2
			1⅝ ,,		2
			1½ ,,		2
			1⅜ ,,		2
			1¼ ,,		2
			1⅛ ,,		2
			1 ,,		2
			⅞ ,,		2
			¾ ,,		2
			⅝ ,,		2
			½ ,,		2
			⅜ ,,		2
			¼ ,,		2
	hand, cold		1 ,, by 8½-inch		2
			¾ ,, by 8 ,,		2
	mortice, ¼-inch				1
Compasses	common, 7-inch			pairs	2
	wing, 10-inch			,,	2
Drifts, steel, round	1-inch				1
	¾ ,,				1
	½ ,,				1
Drivers, screw, G. S.	24-inch				1
	14 ,,				2
	6 ,,				2
Files	bastard	flat, taper	14-inch		4
			10 ,,		4
		half-round	14 ,,		4
			10 ,,		4
		round	14 ,,		4
			10 ,,		4
			6 ,,		4
	saw, three-square		hand, 5½-inch		36
			tenon, 4 ,,		12
Gauges	carpenters		marking		2
			mortice		2
	saddletree-makers			sets	1
Gimlets	common				16
	spike		⅜-inch		4
			¼ ,,		4

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3J—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Gouges, handled	boxing	2-inch		1
		1¾ ,,		1
	firmer	1 ,,		2
		⅝ ,,		2
		½ ,,		2
		⅜ ,,		2
	pecking, 1-in.			2
Hammers	fitters'	32-oz.		2
		24 ,,		2
		16 ,,		2
		8 ,,		2
	smiths, sledge, 10-lb.			1
	wheelers, shoeing			1
	handles	36-inch		4
		14 ,,		4
Handles file	middling			8
	small			8
Knives, drawing, carpenters				2
Lines, carpenters				2
Mallets ,,				2
Pencils ,,				24
Pincers ,,			pairs	2
Pins, drawbore	16-inch			1
	12 ,,			2
Planes	bead			2
	compass			1
	jack, double-iron			2
	moulding, ogee, ⅝-inch			1
	plough			1
	rabbet skew			2
	smoothing, G.S.			2
	trying			1
Pot, glue, 1-pint				1
Punches, carpenters	large			1
	small			1
Rasps	coarse, half-round, 12-inch			2
	fine	flat, 10-inch		2
		half-round, 10-inch		2
Reels, carpenters line				2
Rules, carpenters, common				2
Saws	compass			2
	dovetail, brass back			2
	frame, 15-inch			2
	hand, 26 ,,			2
	tenon, 19 ,,			2

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3J—*continued.*

Articles.	No.
Woolwich Section, No. 7—continued.	
Screw, thumb	2
Set, saw, hand	2
Shaves, spoke, 3¼-inch	4
Shaves, spoke, 2½ ,,	4
Spanners, McMahon's, 15-inch	2
Squares, carpenters, 9-inch	2
Squares, carpenters, 4 ,,	2
Squares, smiths' iron	1
Stones, oil, carpenters	2
Stones, slip, Turkey	2
Vices, hand, 16-oz.	1
Woolwich Section, No. 11.	
Chalk, white lb.	1
Woolwich Section, No. 18.	
Cloths, sponge	4
Woolwich Section, No. 25.	
Brushes, paint, sash tool, No. 6 (for glue)	2
Woolwich Section, No. 26.	
Stones, rag	2
Weedon Section.	
Pliers, flat nose	2
Miscellaneous.	
Handbook, military artificers	1
The undermentioned are not carried in the chest, and will be separately demanded, charged, and accounted for.	
Woolwich Section, No. 7.	
Vice, standing, 80-lb., with iron bench*	1

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* An Engineer supply.

Appendix VII—*continued.*

CHEST, TOOL, FILLED, No. 11E.

Carriage Smiths, R.A., Garrison.

(*Referred to in footnote ‡, page 32, and Equipment Details.*)

	Articles.					No.
	Woolwich Section, No. 7.					
57	**Chests,** tool, empty, No. 11					1
Gen. No.	**Aprons,** basil, brown					2
5680	**Braces,** smiths'					1
	Braces	smiths, bits	countersink, rose			1
			rimer	half-round		1
				square		1
		ratchet	18-in.			1
			drills, No. 1 to 11		set	1
	Callipers, 10-in.				pair	1
	Chisels	hand, cold	1-in. by 8-in.			2
			¾ ,, by 8 ,,			2
		rivet-head				1
		smiths'	cold			1
			hot			2
	Compasses, wing, 10-inch				pair	1
	Cutters, anvil, 2-in.					1
	Drivers, screw, G.S.		14-in.			1
			6 ,,			1
	Files, bastard	flat	14 ,,			10
			10 ,,			6
			8 ,,			4
		half-round	14 ,,			4
			10 ,,			4
		round	12 ,,			4
			8 ,,			2
		rubbers, ½-inch thick, 16-in.				3
		three-square	12-in.			1
			7 ,,			1
		square	10 ,,			2
			8 ,,			2
		warding	5 ,,			2
			cut on one side, 3½-in.			2
	Flatters, smiths					1
	Fullers	bottom				1
		top				1
	Hammers	fitters	24-oz.			1
			32 ,,			1
		smiths	hand, 3-lb.			1
			setting			1
			sledge, 10-lb.			1
			uphand, 7-lb.			1
	Handles, file	large				2
		small				4
		swan-neck				1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 11E—*continued.*

Articles.		No.
Woolwich Section, No. 7—continued.		
Holdalls, smiths		1
Pincers, carpenters	pair	1
Plates, screw, 10 taps, 20-hole		1
Pliers, side-cutting, 7-inch	pair	1
Punches centre, 4½-in.		1
Punches smiths cold		2
Punches smiths hot ⅝-in.		1
Punches smiths hot ½ ,,		1
Punches smiths hot ⅜ ,,		1
Rods, smiths, iron		4
Rules, carpenters, common		1
Saws, cutting metal 10-in.		1
Saws, cutting metal blades, 10-in.		1
Snaps, riveting hand 7/16-in.		1
Snaps, riveting hand ⅜ ,,		1
Snaps, riveting hand 3/16 ,,		2
Snaps, riveting hand ¼ ,,		2
Snaps, riveting rod 1⅝-in.		2
Snaps, riveting rod 1½ ,,		2
Snaps, riveting rod 1⅜ ,,		2
Snaps, riveting rod 1⅛ ,,		2
Snaps, riveting rod 1 ,,		2
Snaps, riveting rod ⅞ ,,		2
Snaps, riveting rod ¾ ,,		2
Snaps, riveting rod ⅝ ,,		2
Snaps, riveting rod ½ ,,		2
Spanner, McMahon's, 15-in.		1
Squares, smiths, iron		1
Stocks, drill, bevel wheel		1
Stocks, ,, ,, ,, bits	sets	1
Stones, oil, smiths		1
Tongs, smiths' bolt	pairs	1
Tongs, smiths' fore bit	,,	1
Tongs, smiths' forge, large	,,	1
Tongs, smiths' hammers	,,	1
Tongs, smiths' hollow bit	,,	1
Tongs, smiths' plier	,,	1
Travellers		1
Vice, hand, 16-oz.		1
Woolwich Section, No. 18.		
Cloths, sponge		4
Miscellaneous.		
Handbook, military artificers		1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 11E—*continued.*

Articles.					No.
The undermentioned are not carried in the chest, and will be separately demanded, charged, and accounted for:—					
Woolwich Section, No. 7.					
Chest, stocks and dies, Whitworth thread, 1⅛-in. to ¼-in., filled....					1
Detail of Stocks and Dies.					
Chests, stocks and dies, Whitworth thread	dies	1⅛-in.		sets	1
		1 „		„	1
		7/8 „		„	1
		3/4 „		„	1
		5/8 „		„	1
		1/2 „		„	1
		7/16 „		„	1
		3/8 „		„	1
		5/16 „		„	1
		1/4 „		„	1
		fine thread	7/8-in.	„	1
			5/8 „	„	1
			9/16 „	„	1
	spanners	7/8-in.			1
		5/8 „			1
	stocks	C			1
		D			1
	taps	1⅛-in.	plug		1
			1st turn....		1
			2nd „		1
		1 „	plug		1
			1st turn....		1
			2nd „		1
		7/8 „	plug		1
			1st turn....		1
			2nd „		1
		3/4 „	plug		1
			1st turn....		1
			2nd „		1
		5/8 „	plug		1
			1st turn....		1
			2nd „		1
		1/2 „	plug		1
			1st turn....		1
			2nd „		1
		7/16 „	plug		1
			1st turn....		1
			2nd „		1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 11E—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Chests, stock and dies, Whitworth thread	taps	$\frac{3}{8}$-in.	plug	1
			1st turn	1
			2nd ,,	1
		$\frac{5}{16}$,,	plug	1
			1st turn	1
			2nd ,,	1
		$\frac{1}{4}$,,	plug	1
			1st turn	1
			2nd ,,	1
		fine thread	$\frac{7}{8}$-in. plug	1
			$\frac{5}{8}$,, ,,	1
			$\frac{9}{16}$,, ,,	1
	wrenches	I		1
		H		1
		F		1
		D		1
Vice, standing, 80-lb., with iron bench*				1

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* An Engineer supply.

CHEST, TOOL, FILLED, SPECIAL, REPAIRING R.B.L. GUNS, L.S.

Articles.				No.
Woolwich Section, No. 7.				
Chests, tool, empty, special, repairing R.B.L. guns				1
Braces, ratchet,	12-inch, drills (set of 11)		sets	1
	9 ,,			1
Cans, oil, lubricating, smiths				1
Chisels, cross cut	18 inches × $\frac{1}{4}$ inch			2
	7 ,, × ,,			1
Cloth, emery flour			sheets	6
Drifts, steel, upsetting	7-inch			1
	20-pr.			1
	12 ,,			1
Drivers, screw	bent			1
	G.S., 5-inch			1
Files, bastard	feather edge, and herring bone, 6-inch			6
	flat	10-inch		4
		8 ,,		4
	half-round	10 ,,		1
		6 ,,		1

Appendix VII—*continued.*

Chest, Tool, Filled, Special, Repairing R.B.L. Guns, L.S.—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Files	bastard	knife	9-inch	1
			8 ,,	1
			6 ,,	3
		parallel, 2 safe sides, ¼-in. × ⅛-in., 6-inch		1
		round	12-inch	2
			8 ,,	2
			6 ,,	1
			5 ,,	1
		safe edge	12 ,,	1
			10 ,,	1
		square	10 ,,	2
			8 ,,	1
		warding	5 ,,	2
			cut on one side, 3½-inch	2
	second cut	one safe side, square taper	8-inch	1
			6 ,,	1
		safe edge, 8-inch		1
	smooth	half-round	8-inch	1
			6 ,,	1
			4 ,,	1
		knife, 6-inch		3
		safe edge	12 inch	1
			10 ,,	1
			8 ,,	1
			4 ,,	1
Hammers, fitters, 8-oz.				1
Handles, file	large			3
	middling			3
	small			3
Punches, centre, 4½ inches				1
Punches, R.B.L. guns	brass	7 inches		1
		6 ,,		1
	copper,	5½ ,,		1
	steel	13 ,,		1
		7 ,,		1
		6 ,,		1
		4 ,,		1
Spanners, McMahon, 9-inch				1
Tommies, R.B.L. guns	forked			1
	plain			1
Woolwich Section, No. 17.				
Wrenches, sight, R.M.L. 16-pr. and R.B.L. 12-pr.				1
Woolwich Section, No. 18.				
Cloths, sponge				12

Appendix VII—*continued.*

CHEST, TOOL, FILLED, No. 3E.

(Wheelers, R.A., Siege.)

(*Referred to at pages* 248, 301, *and* 326.)

57
Gen. No.
5680

57
Gen. No.
7183

Articles.			No.
Woolwich Section, No. 7.			
Chest, tool, empty, No. 3			1
Adapters, brace			1
Adzes, carpenters	handles		1
	heads		1
Aprons, basil, brown			2
Augers	$1\frac{1}{4}$-inch		1
	$1\frac{1}{16}$,,		1
	1 ,,		1
	$\frac{7}{8}$,,		1
	$\frac{5}{8}$,,		1
	$\frac{1}{2}$,,		1
Augers, handles	16		1
	$13\frac{1}{2}$		1
	12		1
Awls	blades, brad		12
	handles, brad	large	2
		small	2
Bag, tool, carpenters			1
Bevel, steel blade, 12-inch			1
Braces, carpenters', bits consisting of—			
	Centre, $1\frac{1}{8}$, 1, $\frac{7}{8}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$, and $\frac{3}{8}$-inch		7
	Countersink	flat	1
		rose	1
	Dowling sash		1
	Gouge, $\frac{7}{16}$, $\frac{5}{8}$, $\frac{5}{16}$, $\frac{1}{4}$, $\frac{3}{16}$, and $\frac{1}{8}$-inch		6
	Nose, $\frac{3}{8}$, $\frac{5}{16}$, $\frac{1}{4}$, $\frac{3}{16}$, and $\frac{1}{8}$-inch		5
	Rimer, square		1
	Screwdriver		1
	Taper		1
Braces, smiths			1
Callipers, 6-inch ... pair			1
Can, oil, lubricating, G. S.			1
Chisels	cross-cut, 7 inches × $\frac{1}{4}$ inch		2
	firmer, coachmakers	$1\frac{1}{2}$-inch	1
		$1\frac{1}{4}$,,	1
		1 ,,	1
		$\frac{3}{4}$,,	1
		$\frac{5}{8}$,,	1
		$\frac{3}{8}$,,	1
	hand, cold, $\frac{3}{4}$ inch × 8 inches		2
	mortice, $\frac{1}{4}$-inch		1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3E—*continued.*

Articles.					No.
Woolwich Section, No. 7—continued.					
Compass, wing, 7-inch				pair	1
Dividers, spring, 6-inch					1
Drifts, steel, round	$\frac{5}{16}$-inch				1
	$\frac{7}{16}$,,				1
	$\frac{9}{16}$,,				1
	$\frac{11}{16}$,,				1
	$\frac{13}{16}$,,				1
Drivers, screw, G.S.	14-inch				1
	6 ,,				1
Files	bastard	flat, 14-inch			2
		half-round, 14-inch			2
		round	10-inch		2
			6 ,,		2
		three-square, 14 ,,			2
	saw, three-square	hand, 5½-inch			4
		tenon, 4 ,,			4
Gauges	carpenters	marking			1
		mortice			1
	saddletreemakers				3
Gimlets, common	$\frac{3}{16}$-inch				2
	$\frac{1}{4}$,,				1
Gouges	firmer	1-inch			1
		$\frac{3}{4}$,,			1
		$\frac{1}{2}$,,			1
	pecking				1
Hammers	fitters	32-oz.			1
		16 ,,			2
		8 ,,			1
	riveting, 24 ,,				1
	smiths, sledge, 10-lb.				1
	screw				1
Handles, file	middling				2
	small				1
Hatchets, hand, 3-lb.					1
Knives, drawing, carpenters					1
Lines, carpenters					1
Mallets ,,					1
Pencils ,,					6
Pincers ,,				pair	1
Planes	bead				2
	compass				1
	jack, double iron				1
	plough				1
	rabbet, skew				1
	smoothing, G.S.				1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3E—*continued.*

Articles.		No.
Woolwich Section, No. 7—continued.		
Pots, glue, 1-pint		1
Punches carpenters, small		1
centre, 4½-inch		1
Rasps, coarse, half-round, 12-inch		1
Reels, carpenters line		1
Rules, saddletree-makers		1
Saws compass		1
dovetail, brass back		1
hand, 24-inch		1
tenon, 14-inch		1
Screws, thumb		1
Scriber		1
Set Saw, hand		1
Shaves, spoke 3¼-inch		1
2½ ,,		1
Squares, carpenters, 9-inch		1
Stones, oil carpenters		1
smiths		1
Tongs, Wheelers	pair	1
Woolwich Section, No. 11.		
Chalk, white	lb.	¼
Woolwich Section, No. 18.		
Cloths, sponge		4
Woolwich Section, No. 25.		
Brushes, paint, sash tool, No. 6 (for glue)		1
Weedon Section.		
Pliers flat-nose	pair	1
Miscellaneous.		
Handbook, military artificers		1

Appendix VII—*continued.*

CHEST, TOOL, FILLED, No. 11B.

(Carriage Smiths, R.A., Siege.)

(*Referred to at page* 326.)

57
Gen. No.
5620

Articles.					No.
Woolwich Section, No. 7.					
Chest, tool, empty, No. 11					1
Aprons, basil, brown					4
Braces	smiths', bits	countersink, rose			1
		rimer	half-round		1
			square		1
	ratchet, 9-in.	....			1
		drills, Nos. 1 to 11		set	1
Callipers	6-in.			pair	1
	4 „ inside				1
Can, oil, lubricating, G.S.					1
Chisels	cross-cut, 7-in. × ¼-in.				1
	engraving				1
	hand, cold, ¾-in. × 8-in.				1
	rivet-head				1
	smiths'	cold			1
		hot			1
Cutters, anvil, 2-in.					1
Dividers, spring, 6-in.					1
Driver, screw, G.S., 6-in.					1
Files	bastard	flat, taper	14-in.		2
			10 „		2
			6 „		1
		half-round	14 „		1
			12 „		1
			8 „		1
		round	10 „		1
			8 „		1
		three-square, 12-in.			2
	second cut	half-round, 8-in.			1
		safe edge, 6-in.			1
	smooth	half-round, 6-in.			1
		square	6-in.		1
			4 „		1
Flatters, smiths'					1
Fullers	bottom				1
	top				1
Hammers,	fitters	32-oz.			1
		24 „			1
		8 „			1
	smiths', hand, 3-lb.				1
	screw				1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 11B—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Handles, file	middling			2
	small			1
Holders, rivet-head, small				1
Plates, screw, 10 taps, 20-hole				1
Pliers, side-cutting, 7-in.			pair	1
Poker, smiths				1
Post, boring, 16-in.				1
Punches	centre, $4\frac{1}{2}$-in.			1
	round	$\frac{1}{2}$-in. × 10-in.		1
		$\frac{1}{16}$-in. × 4-in.		1
	smiths, hot	$\frac{3}{8}$-in.		1
		$\frac{1}{2}$,,		1
Rods, smiths', iron				4
Rules	armament artificers, 1-ft.			1
	saddletree-makers			1
Saws	cutting metal, 10-inch			1
	,, ,, blades, 10-inch			2
Scribers				1
Slices, farriers				1
Snaps, riveting	hand	$\frac{1}{4}$-in.		1
		$\frac{3}{8}$,,		1
		$\frac{3}{16}$,,		1
	rod..	$\frac{3}{4}$,,		1
		$\frac{1}{2}$,,		1
Squares	box, fitters			1
	fitters			1
	smiths, steel			1
Tongs, smiths	fore bit		pair	1
	forge, small		,,	1
	hollow bit		,,	1
	pliers		,,	1
Tools, rounding, bottom				1
Travellers				1
Vices	bench, saddletree-makers			1
	hand, 16-oz.			1
Wrench, tap, small				1
Woolwich Section, No. 18.				
Cloths, sponge				4
Woolwich Section, No. 26.				
Stones, rag				2
Miscellaneous.				
Handbook, military artificers				1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 11B—*continued.*

Articles.				No.
The undermentioned are not carried in the chest, and will be separately demanded, charged, and accounted for:—				
Woolwich Section, No. 7.				
Chest, stock and dies, Whitworth thread, 1-inch to $\frac{3}{8}$-inch, filled				1
Detail of Stocks and Dies.				
Chests, stock and dies, Whitworth thread	dies	1-in.	set	1
		$\frac{7}{8}$ "		1
		$\frac{3}{4}$ "		1
		$\frac{5}{8}$ "		1
		$\frac{1}{2}$ "		1
		$\frac{7}{16}$ "		1
		$\frac{3}{8}$ "		1
	spanners	$\frac{7}{8}$ "		1
		$\frac{5}{8}$ "		1
	stocks	D		1
		C		1
	taps	1-in.	plug	1
			1st turn	1
			2nd "	1
		$\frac{7}{8}$ "	plug	1
			1st turn	1
			2nd "	1
		$\frac{3}{4}$ "	plug	1
			1st turn	1
			2nd "	1
		$\frac{5}{8}$ "	plug	1
			1st turn	1
			2nd "	1
		$\frac{1}{2}$ "	plug	1
			1st turn	1
			2nd "	1
		$\frac{7}{16}$ "	plug	1
			1st turn	1
			2nd "	1
		$\frac{3}{8}$ "	plug	1
			1st turn	1
			2nd "	1
	wrenches	I		1
		H		1
		F		1
		D		1

Appendix VII—*continued.*

CHEST, TOOL, FILLED, No. 3G.

(Wheelers' Tools, R.A. Field, for Wood Carriages.)

(*Referred to at page* 301.)

Articles.					No.
Woolwich Section, No. 7.					
Chests, tool, empty, No. 3					1
Adapters, brace					1
Adzes, carpenters	handles				1
	heads				1
Augers	shell	1¼-inch			1
		$1\frac{1}{16}$ „			1
		1 „			1
		⅞ „			1
		⅝ „			1
		½ „			1
	handles	16-inch			1
		13½ „			1
		12 „			1
Awls	blades, brad				12
	handles, brad	large			2
		small			2
Bags, tool, carpenters					1
Bevels, steel blade, 12-inch					1
Braces	carpenters, bits (set of 24)*			set	1
	smiths				1
	„ bits	countersink, rose			1
		rimer	half round		1
			square		1
	ratchet, 9-inch				1
	„ 12 „ drills (set of 11)			set	1
Callipers, 6-inch				pair	1
Cans, oil, lubricating, G.S.					1

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* Detail of bits:—

Braces, carpenters, Bits,	centre, 1⅛, 1, ⅞, ¾, ⅝, ½, and ⅜-inch		7
	countersink	flat	1
		rose	1
	dowling sash		1
	gouge, $\frac{7}{16}$, ⅜, $\frac{5}{16}$, ¼, $\frac{3}{16}$, and ⅛-inch		6
	nose, ⅜, $\frac{5}{16}$, ¼, $\frac{3}{16}$, and ⅛-inch		5
	rimer, square		1
	screwdriver		1
	taper		1
			24

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3G—*continued.*

Articles.					No.
Woolwich Section, No. 7—continued.					
Chisels	firmer, coachmakers	1½-inch			1
		1¼ ,,			1
		1 ,,			1
		¾ ,,			1
		⅝ ,,			1
		⅜ ,,			1
	hand, cold, ¾-inch × 8-inch				2
	mortice, ¼-inch				1
Compasses, wing, 7-inch				pairs	1
Dividers, spring, 6-inch					1
Drivers, screw, G.S.	14-inch				1
	6 ,,				1
Files	bastard	flat, 14-inch			1
		half-round, 14-in.			1
		round	10-inch		1
			6 ,,		1
	saw, three square	hand, 5½-inch			4
		tenon, 4 ,,			4
Gauges, carpenters	marking				1
	mortice				1
Gimlets, common	($\frac{3}{16}$-inch, 2)				3
	(¼ ,, 1)				
Gouges	firmer	1-inch			1
		¾ ,,			1
		½ ,,			1
	pecking	1 ,,			1
Hammers	fitters	16-oz.			1
		8 ,,			1
	riveting, 24 ,,				1
	screw				1
Handles, file	middling				2
	small				1
Hatchets, hand, 3-lb.					1
Knives, drawing, carpenters					1
Lines, carpenters					1
Mallets, carpenters					1
Pencils, carpenters					6
Pincers, carpenters				pair	1
Planes	jack, double iron				1
	plough				1
	rabbet, skew				1
	smoothing, G. S.				1
Plates, screw, 10 taps, 20 hole					1
Pots, glue, 1-pint					1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 3G—*continued.*

Articles.	No.
Woolwich Section, No. 7—continued.	
Punches carpenters, small	1
centre, 4½-inch	1
Rasps, coarse, half-round, 12-inch	1
Reels, carpenters line	1
Rules, saddletreemakers	1
Saws compass	1
dovetail, brass back	1
hand, 24-inch	1
tenon, 14 ,,	1
Screws, thumb	1
Scribers	1
Sets, saw, hand	1
Shaves, spoke 3¼-inch	1
2½ ,,	1
Squares, carpenters, 9-inch	1
Stocks, drill, bevel wheel	1
Stones, oil, carpenters	1
Vices, hand, 16-oz.	1
Wrenches, tap, small	1
Woolwich Section, No. 11.	
Chalk, white (for line, carpenters) lb.	¼
Woolwich Section, No. 25.	
Brush, paint, sash tool, No. 6 (for glue)	1
The undermentioned are not carried in the Chest, and will be separately demanded, charged and accounted for :—	
Woolwich Section, No. 7.	
Chests, stocks and dies, Whitworth thread, 1-in. to ⅜-in., filled	1

BAG, TOOL, ARMAMENT ARTIFICERS.

Articles.	No.
Woolwich Section, No. 7.	
Bag, tool, farriers	1
vice	1*
Braces, ratchet 12-inch, drills (sets of 11) set	1
9 ,,	1
Callipers, 6-inch	1

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* To be available at the station with each set of tools, but not to be issued unless actually required by the Artificer.

Appendix VII—*continued*

Bag, Tool, Armament Artificers—*continued.*

Articles.		No.
Woolwich Section, No. 7—continued.		
Chisels, cross-cut, 7-inch × ¼-inch		1
Chisels, hand, cold, ¾-inch × 8-inch		3
Dividers, spring, 6-inch	pair	1
Drivers, screw, G.S., 6-inch		1
Files bastard, half round, 12-inch		1
Files bastard, round, 12 „		1
Files bastard, round, 8 „		1
Files bastard, safe edge, 12 „		1
Files bastard, safe edge, 8 „		1
Files second-cut, half round, 12 „		1
Files dead smooth, half round, 4-inch		1
Files dead smooth, safe edge, 4 „		1
Hammers, fitters, 16-oz.		1
Handles, file, large		1
Handles, file, middling		1
Handles, file, small		1
Levels, spirit, block, 9 inches		1
Punches, centre		1
Rules, armament artificers, 1-foot		1
Screws, extracting, packing		1*
Scribers		1
Spanners, McMahon, 9-inch		1
Tips, oil		1
Vice bench, saddletree makers		1†
Vice hand, 20-oz.		1
Woolwich Section, No. 23.		
54 / Arty. / 7417 **Cartridges,** machine gun, dummy, special for armourers, ·303-in.		3

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* Piece of twisted wire can be made by artificer.

† To be available at the station with each set of tools, but not to be issued unless actually required by the artificer.

BAG, VICE, ARMAMENT ARTIFICERS.

(Containing tools for the repair of Position-Finding Instruments.)

Articles.	No.
Weedon Section.	
Pliers, flat nose	1
Woolwich Section, No. 7.	
Bags, vice	1
Bits, soldering, ½ lb.	1
Brushes plate	2
Brushes watchmakers	2

Appendix VII—*continued.*

Bag, Vice, Armament Artificers—*continued.*

Articles.		No.
Woolwich Section, No. 7—continued.		
Burnishers, flat		1
Burnishers, oval		1
Burnishers, triangular		1
Callipers, 5-inch	pair	1
Dividers, spring, 6-inch	pair	1
Drills, Morse, twist	set	1
Drivers, screw, armourers, small		1
Drivers, screw, G.S., 6-inch		1
Drivers, screw, G.S., 4 ,,		1
Eyeglasses		1
Files, bastard, safe edge, 8-inch		1
Files, rough, round, 6-inch		1
Files, second cut, half-round, 6-inch		1
Files, second cut, one safe side, square, taper, 8-inch		1
Files, second cut, safe edge, 6-inch		1
Files, dead smooth, flat, 6-inch		1
Files, dead smooth, half-round, 4-inch		1
Files, dead smooth, safe edge, 4-inch		1
Files, smooth, half-round, 6-inch		1
Files, smooth, pillar, 3-inch		1
Files, smooth, round, 6-inch		1
Files, smooth, round, 3 ,,		1
Files, smooth, safe edge, 6-inch		1
Files, smooth, safe edge, 3 ,,		1
Files, smooth, square, 6-inch		1
Files, smooth, square, 4 ,,		1
Files, smooth, three-square, 3-inch		1
Files, pivoting, 6 varieties	set	1
Gravers, turners, $\frac{5}{32}$-inch		1
Gravers, turners, $\frac{3}{32}$-inch		1
Hammers, fitters, 8 oz.		1
Knives, clasp		1
Nippers, end cutting, G.S., 6-in.		1
Pegwood	bundle	1
Pincers, carpenters, 8½-inch		1
Pipes, blow		1
Pliers, round nose		1
Pliers, side cutting, 7-inch		1
Punch, centre, 4-inch		1
Rule, armament artificers, 1-foot		1
Saws, cutting metal, 6-inch		1
Saws, keyhole, blade		1
Saws, keyhole, pads		1
Spanners, McMahon, 9-inch		1
Square, fitters, 4-inch		1
Stone, oil, telegraph mechanics		1

Appendix VII—*continued.*

Bag, Vice, Armament Artificers—*continued.*

Articles.	No.
Woolwich Section, No. 7—continued.	
Tips, oil	1
Tongs, watchmakers, bull-nose	1
Tools, watchmakers drills	1
drivers, screw set	1
nippers, 4⅝-inch	1
tweezers	1
Tools, screw cutting, B.A., standard, G.S. in case	1
Vice hand, 8-oz.	1
pin	1
Woolwich Section, No. 9.	
Solder, tinman's stick	1
Woolwich Section, No. 11.	
38407 Equip 1736 **Compound,** Chatterton's lb.	¼
Woolwich Section, No. 20.	
Scissors, laboratory	1
Woolwich Section, No. 27.	
Leathers, chamois	1
Woolwich Section, No. 28.	
Tools, electricians (set in case)	1
Tools, jointers, telegraph, lamps, spirit, telegraph equipment	1
Woolwich Section, No. 29.	
Solder, silver oz.	2

Appendix VII—*continued.*

CHEST, TOOL, FILLED, No. 14A.

(Watchmakers, for repair to Position-Finding Instruments, and for use of Armament Artificers specially appointed for this duty.)

57
Gen. No
6114

(*Referred to in paragraphs* 78 *and* 182.)

Articles.				No.
Weedon Section.				
Bits, soldering, 1½ lbs.				1
Boxes, oilstone, dust				1
Sticks, buff				6
Woolwich Section, No. 7.				
Chest, tool, empty, No. 14				1
Awls	blades, brad		sets	2
	handles, brad	large		6
		small		6
Blocks, scribing				1
Boxes, polishing				1
Braces	carpenters			1
	carpenters' bits (set of 24)		set	1
Broaches, telegraph, mechanics	blades		,,	1
	handles			12
Brushes, camel-hair	1½-inch			1
	1 ,,			1
	½ ,,			1
Callipers, 4-inch	inside			1
	outside			1
Cans, spirits of wine, 1½ pint, flat				1
Card, scratch			foot	1
Chisels	firmer	1-inch		1
		¾ ,,		1
		½ ,,		1
		¼ ,,		1
		⅛ ,,		1
	socket, ¼-inch			1
Cloth, emery	O		quire	¼
	F		,,	¼
	Flour		,,	¼
Drivers, screw, watchmakers	¼-inch			1
	$\frac{3}{16}$,,			1
	⅛ ,,			1
Dust, oilstone			lb.	½
Elderpith, telegraph mechanics			bundles	3
Files, bastard	half-round, 12-inch			1
	round, 10-inch			1

38407
Equip.
1736

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

Woolwich Section, No. 7—continued.

Articles.					No.
Files	bastard	safe edge	14-inch		1
			8 ,,		1
			4 ,,		1
		square, 10-inch			1
	rough	flat, 18-inch			1
		round, 6-inch			2
	saw, 3-square, hand, 6-inch				2
	second cut	fish back, 12-inch			1
		half-round	10-inch		1
			6 ,,		1
		one safe side, square, taper, 8-inch			1
		safe edge	8-inch		2
			6 ,,		1
	dead smooth	flat	12-inch		1
			6 ,,		2
		half-round	6-inch		1
			4 ,,		1
		safe edge	6 ,,		1
			4 ,,		2
	smooth	fish back, taper, 10 ,,			1
		flat, 8-inch			2
		half-round	10-inch		1
			6 ,,		2
			3 ,,		2
		pillar	6 ,,		1
			3 ,,		2
		round	6 ,,		2
			3 ,,		2
		safe edge	10 ,,		1
			6 ,,		2
			3 ,,		2
		square	6 ,,		2
			4 ,,		2
		3-square, 3-inch			2
	screw-head				4
Gauges, standard wire					1
Gimlets, screw				set	1
Gouges, handled	firmer	$\frac{1}{8}$-inch			1
		$\frac{1}{4}$,,			1
		$\frac{3}{8}$,,			1
		$\frac{1}{2}$,,			1
	flat	$\frac{3}{8}$,,			1
		$\frac{3}{4}$,,			1
Gravers, turners	$\frac{9}{32}$-inch				1
	$\frac{7}{32}$,,				1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

Articles.				No.
Woolwich Section, No. 7—continued.				
Grindstone, 8-inch				1*
Hammer	fitters, 16-oz.			1
	watchmakers			1
Handles	file	large		3
		middling		12
		small		12
	graver			12
Holders, milling tool				1
Ladles, melting, half-pint				1*
Lathe, watchmakers	arm			1
	mandril			1
	wheel			1
Mallets, tinman's				1
Pegwood			bundles	6
Planes, smoothing, G.S.				1
Plates	draw			1
	surface, 10″ × 4″			1
Pliers, watchmakers	5-inch			1
	4-inch			1
Pots, fire, telegraph mechanics				1*
Powder, emery, flour			lb.	½
Rasps	coarse	flat, 8-inch		1
		half-round, 8-inch		1
	fine	flat, 6-inch		1
		half-round, 6-inch		1
Runners, milling	flat (4 sizes)		set	1
	hollow (4 sizes)		,,	1
	round (4 sizes)		,,	1
Saws	cutting metal	6-inch		1
		blades, 6-inch		2
	dovetail, brass back			1
	hand, 26-inch			1
	key-hole	blades		3
		pads		1
Sets, saw, hand				1
Shaves, spoke, 2½-inch				1
Shears, snip, 8-inch, telegraph mechanics				1
Squares, carpenters, 9-inch				1
Stands, wood, for Morse twist drills			set	1†
Stocks and dies, Whitworth thread, telegraph mechanics, and 2 wrenches				1
Stones, oil, slip Arkansas				2

57
Gen. No.
6114

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* Carried in a separate packing case which will accompany each No. 14A chest.
† The drills are carried in the "Bag, vice, armament artificers."

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

Articles.	No.
Woolwich Section, No. 7—continued.	
Straight-edge, steel, 2 feet	1
Tongs, watchmakers, wide nose	1
Tools, watchmakers :—	
Bouchon's clock pieces for bushing pivot holes, assorted sizes	12
Bouchon's timepiece, for bushing pivot holes ,, ,,	100
Broaches, pivot, English, assorted sizes	24
Carriers, steel, for throw or pivot turns .... set	1
Cups, oil, boxwood, high pattern	1
Drills, small, and stocks, watchwork .... box	1
Endstones, garnet, flat and convex	144
Files, Geneva cylinder notch	2
Files, Geneva dovetail	2
Files, Geneva ratchet	2
Files, Geneva round	2
Files, Geneva square	2
Files, Geneva 3 square..	2
Glass, covering, and tray	1
Jars, essence	1
Screws jewel flat heads	144
Screws jewel round heads	144
Screws watch, English and Geneva (assorted sizes) of each	144
Silver, German sheet .. 15 Standard wire gauge .... lb.	1
Silver, German sheet .. 19 ,, ,, ,, ... ,,	1
Silver, German sheet .. 22 ,, ,, ,, ... ,,	1
Vices, screw, pin, holding broaches, American pattern	1
Tweezers	1
Vice, bench, parallel, 12 lb.	1
Wire, brass, hard 1 Standard wire gauge .... lb.	1
38407 Equip. 1736 **Wire,** brass, hard 7 ,, ,, ,, ... ,,	1
Wire, brass, hard 12 ,, ,, ,, ... ,,	1
Wire, brass, hard 14 ,, ,, ,, ... ,,	½
Wire, brass, hard 20 ,, ,, ,, ... ,,	½
Woolwich Section, No. 9.	
Brass, sheet 10 standard wire gauge .... lb.	2
Brass, sheet 14 ,, ,, ,, ... ,,	2
Brass, sheet 16 ,, ,, ,, ... ,,	1
Brass, sheet 20 ,, ,, ,, ... ,,	1
57 Gen. No 8753 **Copper,** sheet, No. 16, S.W.G. .... ,,	2
Steel, rods, Stubs', bright, of sizes .... ,,	1
Tin, grain .... ,,	1

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

Articles.			No.
Woolwich Section, No. 10.			
Ebonite	bar, square, 1-in.	lb.	1
	round, 1-in.	,,	1
	sheet $\frac{1}{4}$-in.	,,	1
	sheet $\frac{1}{16}$,,	,,	$\frac{1}{2}$
Woolwich Section, No. 11.			
Borax, refined		lb.	$\frac{1}{2}$
Bottles	glass, narrow mouth, without capsules, 2 oz.		2
	glass, wide mouth ,, ,, 4 ,,		2
	stone, 1 pint (for soldering solution)		1†
	stone, $\frac{1}{2}$ pint (for lacquer)		3
	tin, oil, 1 gallon (for methylated spirits)		1*
Lacquers	pale gold	pint	$\frac{1}{2}$
	white	,,	1
Methylated Spirits		gal.	1*
Oil, Kelly's	watch	small bottle	1
	clock	,,	1
Paraffin	black	lb.	1
	white	,,	1
Platinum, bichloride		tubes	3
Resin, finest		lb.	$\frac{1}{2}$
Solution, soldering		pint	1†
Wick, common		lb.	$\frac{1}{2}$
Woolwich Section, No. 16.			
Chisels, cold, flat	8-inch × $\frac{3}{4}$-inch		1
	$4\frac{1}{2}$,, × $\frac{1}{2}$,,		1
Woolwich Section, No. 18.			
Cloths, sponge		doz.	1
Woolwich Section, No. 22.			
Shellac, orange		lb.	$\frac{1}{4}$

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Gen. No.
6114
38407
Equip.
1736

17361

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* The methylated spirit is contained in the "Bottle, tin, oil, 1-gallon," and carried in a separate packing case.

† Carried in a separate packing case which will accompany each No. 14A chest.

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

Woolwich Section, No. 25.

Articles.		No.
Stamps, steel, for metal — $\frac{1}{8}$-inch, 0 to 8	set	1
Stamps, steel, for metal — $\frac{1}{8}$-inch, letters	,,	1

Woolwich Section, No. 27.

Articles.		No.
Rags, cotton, fine	lb.	2
Leathers, chamois	....	3

Woolwich Section, No. 28.

Articles.		No.
Coils, resistance, 10,000 ohms	....	1
Counters, bone	....	24
Galvanometers, horizontal 800-ohms, with magnet, in leather case	....	1
Tools, electricians, cases — files, boxwood	....	1
Tools, electricians, cases — springs and pins, boxwood	....	1
,, jointers, telegraph — bottles, gutta percha, 4 ozs.	....	1
,, jointers, telegraph — compound, Chatterton's	lb.	2
,, jointers, telegraph — knives, shoemakers	....	1
,, jointers, telegraph — solder, tinmans	lb.	1
Wire — German silver — 20 S.W.G.	,,	½
Wire — German silver — 30 ,,	,,	½
Wire — platinum, No. 11 S.W.G.	oz.	1

Woolwich Section, No. 29.

	Articles.		No.
	Batteries, Le Clanché, testing 6-cell	....	1*
	Boxes — borax	....	1
84	**Boxes** — resin	....	1
H.	**Case,** galvanometer, detector	....	1
2946	**Compasses,** magnetic, pocket	....	1
...	**Galvanometer,** detector, without case	....	1
2946	**Instruments,** testing, primary batteries	....	1

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* Carried in a separate packing case which will accompanying each 14A chest.

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

Store.	Quantity.	How packed.	
Woolwich Section, No. 28.			
Each chest will be accompanied by a "Box, Armament, Artificers," which will contain the consumable stores mentioned below. These stores will be demanded as may be necessary to ensure that the supply in the box shall not be allowed to fall below 50 per cent. of the full complement:—			57 Portsmouth. 3639
Aluminium, sheets, 4-inch by 10-inch, $\frac{1}{100}$-inch thick ... sheets	1	Loose	
Aluminium, sheets, 4-inch by 10-inch, $\frac{1}{64}$,, ,, ... ,,	1	Loose	
Boxes, small wooden, A, 1·4 in. × 3 in. × 2·4 in	6	Loose	
Boxes, small wooden, B, 2·4 ,, × 3·7 ,, × 3·2 ,, ...	2	Loose	57 Gen. No. 8753
Boxes, small wooden, C, 1·1 ,, × 6·4 ,, × 2·1 ,, ...	4	Loose	
Boxes, small wooden, D, 0·8 ,, × 1·4 ,, diameter	10	Loose	
Boxes, small wooden, E, 2·0 ,, × 0·9 ,, ,, ...	2	Loose	
Boxes, small wooden, F, 2·2 ,, × 1·0 ,, ,, ...	1	Loose	
Boxes, small wooden, G, 2·6 ,, × 1·4 ,, ,, ...	1	Loose	
Coils, dial, leg	6	B_1	
Coils, dial, relay	4	B_2	
Coils, dial, shunt	4	B_2	
Collet, round, for wheel	20	E_1E_2	
Cord, black silk, wound on a bobbin .... .. yds.	6	Loose	... 8753
German-silver, sheets, 6-in. × 1½-in. 0·01-in. thick .... sheets	1	C_1	
Hand, range dial, with slider	2	C_1	
Hand, training dial, with slider	2	C_1	
Nut, hexagonal, No. 8, B.A.	50	D_1	
Nut, round capstan, No. 4, B.A. $\frac{7}{16}$-in. diameter	20	A_5	
Nut, ,, ,, ,, 0, ,, $\frac{5}{8}$,, ,,	6	A_5	... 8753
Nut, ,, ,, ,, 0, ,, $\frac{3}{4}$,, ,,	6	A_5	
Nut, ,, ,, $\frac{5}{16}$-in. Whitworth, $\frac{7}{8}$-in. ,,	3	A_5	
Nut, ,, ,, ,, ,, $\frac{3}{4}$,, ,,	3	A_5	
Nut, pieces, brass, end	20	A_5	
Nut, ,, finger	6	C_1	
Pinion, for dial	20	D_2	
Plastic metal, in sticks .... lb.	1	Loose	
Screws, brass, B.A., capstan-headed, No. 4, $\frac{7}{8}$-in.	6	A_6	
Screws, brass, B.A., capstan-headed, ,, 6, $\frac{9}{16}$,, ...	6	A_6	
Screws, brass, B.A., capstan-headed, ,, 8, 1¼ ,, ...	50	G_1	
Screws, brass, B.A., square-headed, ,, 0, 1¼-in.	12	A_1	
Screws, brass, B.A., square-headed, ,, 2, $\frac{3}{4}$,, ...	12	A_2	
Screws, brass, B.A., square-headed, ,, 4, $\frac{1}{2}$,, large head	50	A_3	
Screws, brass, B.A., square-headed, ,, 4, $\frac{5}{8}$,, small head	50	A_3	
Screws, brass, B.A., square-headed, ,, 6, $\frac{13}{32}$,, large head	50	A_4	

Appendix VII—*continued.*

Chest, Tool, Filled, No. 14A—*continued.*

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Portsmouth
3639

Woolwich Section, No. 28—continued.

	Store.	Quantity.	How packed.
	Screws, brass, B.A., square-headed, No. 6, $\frac{1}{2}$-in. small head	50	A_4
	„ „ „ „ 8, $\frac{3}{8}$ „ large head	50	D_3
	„ „ „ „ 8, $\frac{9}{16}$ „ small head	50	D_4
	„ „ „ „ 10, $\frac{3}{8}$ „	50	D_5
57 Gen. No. 8753	„ „ B.A., taper-headed, No. 0, $1\frac{1}{4}$-in.	12	A_1
	„ „ „ „ 2, $\frac{3}{4}$ „	12	A_2
	„ „ „ „ 8, $\frac{3}{8}$ „	50	D_6
	„ „ „ „ 10, $\frac{3}{8}$ „	50	D_1
57 Portsmouth 3941	„ „ 40 threads to inch, $\frac{7}{16}$-in. long....	20	A_6
	„ „ Whitworth, capstan-headed, $\frac{5}{16}$-in. $1\frac{3}{8}$-in.	3	A_6
	„ „ wood, round-headed, $1\frac{1}{2}$-in.	50	C_2
	„ „ „ „ $1\frac{1}{4}$-in.	50	C_2
	„ iron, B.A., square-headed, No. 4, $\frac{3}{4}$-in.	50	A_2
	„ „ „ „ 6, $\frac{3}{4}$ „	50	A_4
	„ „ B.A., taper-headed, No. 8, $\frac{1}{2}$-in.	50	D_8
	Silk thread for dial hands, wound on a spool, yards	1	C_1
	Springs, square-gearing, long	10	D_9
	„ „ short	10	D_{10}
	Tap, special, 40 threads to inch	1	C_3
	Wheels, large, 100 teeth	20	F_1
	„ small, 50 teeth	20	D_2
57 Gen. No. 8753	„ star, 2 crescent	3	C_1
	„ star, 3 „	3	C_1
	Wire, cotton covered, red & black, special for dials yds.	6	C_3
	„ 0·02-in. diameter, green silk covered, wound on bobbin „	6	C_3
	„ „ red silk covered, wound on bobbin „	6	C_3
	„ German-silver, No. 12, S.W.G., in 6-in. lengths, feet	3	C_4
	„ „ „ 18 „ „ „ „	3	C_4
	„ „ for hand springs, in 18-in. lengths „	9	C_1
	„ steel, No. 23, S.W.G., in coils 6-in. long, coils	6	C_4
	„ „ „ 25 „ „ „ „ „	6	C_4
	„ „ „ 26 „ „ „ „ „	6	C_4

N.B.—The letters in the column "How packed" refer to the small wooden boxes.

APPENDIX VIII.

LIST OF STORES FOR INSTRUCTORS IN RANGE-FINDING.

(*Referred to in paragraph* 184.)

Articles.		No.
Woolwich Section, No. 7.		
Drivers, screw, armourers small		1
Drivers, screw, G.S. 12-inch		1
Drivers, screw, G.S. 6 „		2
Drivers, screw, watchmaker's $\frac{1}{4}$-inch		1
Drivers, screw, watchmaker's $\frac{3}{16}$ „		1
Files, bastard, three-square 8-inch		1
Files, saw, three-square, hand, 8-inch		3
Files, smooth, three-square 4-inch		2
Pliers, side cutting, 7-inch		1
Tips, oil		1
Woolwich Section, No. 22.		
Tubes, electric, No. 10		100
Woolwich Section, No. 25.		
Boards, black, musketry instruction		1
Easels, musketry instructions		1
Woolwich Section, No. 28.		
Cable, electric D. No. 10	yds.	25
Cell, Le Clanché, large		20
Coils, resistance, 10,000 ohms*		1
Galvanometer, horizontal 800 ohms* (in leather case)		1
Instrument, testing primary batteries		1
Test table wire	yds.	100
Woolwich Section, No. 29.		
Boards, drawing, antiquarian		1§
Funnels, battery cell		1
Instrument, drawing, Royal Engineers		1§
Pins, drawing		20§
Protractors, brass, circular 8-inch		1§
Scales, mathematical, No. 3 Marquoi	sets	1§
Sextants, pocket*		1
T-square, 52-inch		1§
Wire, covered, B 2	yds.	100
Woolwich Section, No. 30.		
Paper, cartridge	quires	5§
STATIONERY.†		
Paper, drawing, antiquarian	quires	1§
Paper, tracing	„	1§
Pencils, blacklead, HHH		6§
Pencils, „ HB		6§
Pencils, blue		3§
Pencils, red		3§
ELECTRICAL BOOKS—STATIONERY.†		
Notes on Electricity for Garrison Artillery		6
Electricity in the Service of Man		1

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* In cases where two sets of stores are issued to any one district, as a special case, these articles will not form part of the second set.

† Supplied from the War Office on requisition.

§ Allowed, when specially ordered, to inspectors of position-finding.

57 Colchester 4670
57 Chatham 4561
57 Devonport 6269
57 Gibraltar 6561
Gibraltar 6561

APPEN

Spanners and Special Implements

Vocabulary No.	Description.	B.L.											R.M.L.			
		12"	Barbette.								Travelling.		12"·5			
		Garrison.	10" Marks			9"·2 Marks			6"	6", V.C.P.	5", 6 ft. parapet.	4", 6 ft. parapet.	Casemate and dwarf.	Small Port.		
			I	II	III	I	II	III						6 ft. recoil.	7 ft. recoil.	
	Spanners, hydraulic buffer.															
No.																
1	Cap and gland	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1
2	Gland	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2
3	,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
4	,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
5	,,	...	...	...	...	...	...	...	...	...	...	...	...	...	1	5
6	Plug and draw off cock	...	...	...	...	...	...	...	...	...	1	1	1	1	1	6
21	Gland (with tommy, No. 21)	...	...	...	...	...	...	...	...	...	...	...	1	...	1	7
22	Caps	1	...	...	...	...	...	...	...	...	...	...	...	...	...	8
23	Gland, outer (with plate)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	9
24	,, inner	1	...	...	...	...	...	...	...	...	...	...	...	...	...	10
25	Nut, piston-rod	1	...	...	...	...	...	...	...	...	...	...	...	...	...	11
26	Union connecting pipe, and filling hole plug, B.L., 12-in.	1	...	...	...	...	...	...	...	...	...	...	...	...	...	12
	Nut controlling plunger, and screws supporting trunnion ball bearings, B.L., 9·2-in., Mark III	...	...	...	...	...	...	1	...	...	...	...	...	...	...	13
27	Coupling and nut, joint connecting pipe	1	...	...	...	...	...	...	...	...	...	...	...	...	...	14
34	Gland, outer	...	1	...	...	1	...	...	...	...	...	...	...	...	...	15
35	,, inner and plug	...	1	...	...	1	...	...	...	...	...	...	...	...	...	16
36	Bolt, connecting, piston-rod	...	1	...	...	1	...	...	...	...	...	...	...	...	...	17
37	Ring, securing, leather, packing	...	1	...	...	1	...	...	...	...	...	...	...	...	...	18
38	Cap, rear (with key)	...	...	1	...	...	1	...	...	...	...	...	...	...	...	19
39	Gland and connecting pipe	...	...	1	...	...	1	...	...	...	...	...	...	...	...	20
40	Nuts, connecting, and filling pipes	...	...	1	...	...	1	...	...	...	...	...	...	...	...	21
41	Plug, filling, and securing screw	...	...	1	...	...	1	...	...	...	...	...	...	...	...	22
42	Gland, inner and cap	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
43	Nuts, piston-rod, and recoil valve	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
44	Gland, outer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
45	Gland (with tommy, No. 22)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
46	Cap, rear	...	...	...	1	...	...	...	...	...	...	...	...	...	...	27
47	Gland, inner { 10" B.L., Mark III, and	...	...	...	1	...	...	...	...	...	...	...	...	...	...	28
	plug pivot, R.M.L., 10"·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
48	Gland, outer	...	...	...	1	...	...	...	...	...	...	...	...	...	...	30
49	Plug, filling	...	...	...	1	...	...	...	...	...	...	...	...	...	...	31
50	,, ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
51	Cap and gland	...	...	...	...	...	...	...	1	...	...	...	...	...	...	33
52	Ring, securing leather packing	...	...	...	...	...	...	...	1	...	...	...	...	...	...	34
53	Gland	...	...	...	...	...	...	...	...	1	...	...	...	...	...	35
54	Plug, cylinder	...	...	...	...	...	...	...	...	1	...	...	...	...	...	36
55	Nut, piston-rod, thin	...	...	...	...	...	...	...	...	1	...	...	...	...	...	37

DIX IX.

for Land Service Mountings.

	R.M.L.						Medium.		R.M.L.	Proportions.		Remarks.
	12″		10″·4	10″	9″	7″			Siege.			
	35-ton.	25-ton, or 11″.	Barbette.		Casemate and dwarf.	Casemate and dwarf.	Carriages.	Slides.	Howitzers.	Per mounting.	Per work.	
1	...	...	...	...	...	...	...	...	1	...	1	
2	...	1	...	1	1	1	...	1*	...	...	1	* Nos. 11, 12, 19, and 20 slides. † No. 9 slide only. ‡ Nos. 7 and 26 carriages. § Nos. 4, 5, and 6 carriages.
3	...	...	...	...	...	...	1‡	1†	...	...	1	
4	...	...	...	...	...	...	1§	...	...	...	1	
5	1	...	...	...	...	...	...	...	...	...	1	
6	1	1	...	1	1	1	1	1	1	1	...	
7	...	...	...	...	...	...	...	...	...	...	1	
8	...	...	...	...	...	...	...	...	...	...	2	
9	...	...	...	...	...	...	...	...	...	...	2	
10	...	...	...	...	...	...	...	...	...	...	2	
11	...	...	...	...	...	...	...	...	...	...	2	
12	...	...	...	...	...	...	...	...	...	...	2	
13	...	...	...	...	...	...	...	...	...	...	1	
14	...	...	...	...	...	...	...	...	...	...	2	
15	...	...	...	...	...	...	...	...	...	1	...	
16	...	...	...	...	...	...	...	...	...	1	..	
17	...	...	...	...	...	...	...	...	...	1	...	
18	...	...	1	...	...	...	...	...	...	1	...	
19	...	...	...	...	...	...	...	...	...	...	1	
20	...	...	...	...	...	...	...	...	...	...	1	
21	...	...	...	...	...	...	...	...	...	...	1	
22	...	...	...	...	...	...	...	...	...	...	1	
23	...	...	1	...	...	...	...	...	...	...	1	
24	...	...	1	...	...	...	...	...	...	...	1	
25	...	...	1	...	...	...	...	...	...	...	1	
26	...	1	...	...	...	...	...	...	...	...	1	Tension buffers only.
27	...	...	...	...	...	...	...	...	...	...	1	
28	...	...	...	...	...	...	...	...	...	...	1	
29	...	...	1	...	...	...	...	...	...	...		
30	...	...	...	...	...	...	—	...	...	...	1	
31	...	...	...	...	...	...	...	...	...	...	1	
32	...	...	1	...	...	...	...	...	...	...	1	
33	...	...	...	...	...	...	...	...	...	...	1	
34	...	...	...	...	...	...	...	...	...	...	1	
35	...	...	...	...	...	...	...	...	...	...	1	
36	...	...	...	...	...	...	...	...	...	...	1	
37	...	...	...	...	...	...	...	...	...	...	1	

33407
Equip.
1800

Appendix

Spanners and Special Implements for

71 / 1 / 7803 / 57 / Gen. No. / 7739

57 / Dover / 3509

57 / Gibraltar / 6678

Vocabulary No.	Description.	B.L.									
		6″	Barbette.								
			10″, Marks			9″·2, Marks			8″	6″, mark II	
		V.C.P.	I	II	III	I	II	III			
	Spanners, hydraulic buffer—continued.										
56	Plugs, filling and emptying, and connecting pipe unions, B.L., 6-in., V.C.P	1	...	...	...	...	...	...	...	...	1
	Plug, emptying, and connecting pipe unions, barbette, B.L., 9·2-in., Mark III	...	...	...	...	...	...	1	...	...	2
57	Nut, piston-rod	...	...	...	...	...	...	...	...	...	3
58	Box, stuffing, piston rod gland, ring securing leather packing, and tank plug	...	...	...	...	...	...	...	...	...	4
63	Cap and gland, also brake nut	...	...	...	...	...	...	...	...	...	5
64	Nut, piston-rod, and brake nut	...	...	...	...	...	...	...	...	...	6
65	Plugs, filling and drain, with tommy end, for capsquare screw	...	...	...	...	...	...	...	...	...	7
66	Cap, gland and piston...	...	...	...	...	...	...	...	...	...	8
67	Plugs, filling and emptying, and transom screws	...	...	...	...	...	...	...	...	...	9
72	Cap and gland	...	...	...	...	...	...	...	1	...	10
73	Ring, securing leather packing	...	...	...	...	...	...	...	1	...	11
74	Nuts, piston rod	...	...	...	...	...	...	...	...	...	12
75	Box, stuffing, piston rod gland, ring securing leather packing, and tank plug	...	...	...	...	...	...	...	...	...	13
76	Gland, inner	...	...	...	...	...	...	...	...	...	14
78	Adjusting valve, and controlling plunger gland	...	...	...	...	...	...	...	...	1	15
88	Piston plug, filling and emptying, and spring chamber cover	...	...	...	...	...	...	...	...	...	16
89	Gland and stuffing box	...	...	...	...	...	...	...	...	...	17
90	Cylinder cover and crutch	...	...	...	...	...	...	...	...	...	18
91	Gland	...	...	...	...	...	...	...	...	1	19
92	Stuffing box	...	...	...	...	...	...	...	...	1	20
93	Front cap...	...	...	...	...	...	...	...	...	1	21
94	Rear ,, ...	...	...	...	...	...	...	...	...	1	22
95	Piston rod nuts	...	...	...	...	...	...	...	...	1	23
96	Controlling plunger nut	...	...	...	...	...	...	...	...	1	24
97	Box, stuffing, piston rod nut and gland, and ring securing leather packing ...	...	...	...	...	...	...	...	...	...	25
99	Cap, rear, and piston rod nut	...	...	...	...	...	...	1	...	...	26
100	Gland, large	...	...	...	...	...	...	1	...	...	27
101	,, small	...	...	...	...	...	...	1	...	...	28
102	Stuffing box	...	...	...	...	...	...	1	...	...	29
103	Nut, securing tube	...	...	...	...	...	...	1	...	...	30
	Spanners, circular, hydraulic buffer.										
1	Box, piston, and valve box	...	...	...	...	...	...	...	...	...	31
2	Locking valve	...	...	...	...	...	...	...	...	...	32
	Spanners.										
1	Axle, roller, carriage	...	1	...	...	1	...	...	...	...	33
2	,, truck, slide L	...	1	...	...	1	...	...	...	...	34
3	Bolts, fixing, rear bracket, guide retaining gear	...	1	...	...	1	...	...	...	...	35
4	Spindle, spring, retaining gear, and controlling ram, hydraulic buffer, and ram controlling, 10·4″	...	1	...	...	1	...	...	...	...	36
5	Bolts, counterweight	...	...	1	1	...	1	...	...	...	37
6	Cone, elevating	...	...	1	...	...	1	...	...	...	38
7	Shaft, elevating, pinion	...	...	1	...	...	1	...	...	...	39
8	Valve, seating and plugs (with tommy, No. 2), pump, hydraulic, pivot gear, ...	...	...	1	1	...	1	...	...	...	40
9	Union delivery pipe (large), hydraulic pivot gear	...	...	1	...	...	1	...	...	...	41
10	Union delivery pipe (small), hydraulic pivot gear	...	...	1	...	...	1	...	...	...	42
11	Union suction pipe, hydraulic, pivot gear	...	...	1	...	...	1	...	...	...	43

IX—*continued.*

Land Service Mountings—*continued.*

	Q.F.								R.M.L.	Medium.	Proportions.		Remarks.
	6″	4″·7 C.P. Marks			12-pr.	6-pr. recoil.	3 pr.		10″·4				
		I	II	III			Travelling.	Recoil pedestal.	Barbette.	Slides.	Per mounting.	Per work.	
1	...	...	...	...	...	...	...	...	...	...	...	1	
2	...	...	...	...	...	...	...	...	...	...	...	1	
3	...	1	1	1	...	...	...	...	...	...	1	...	
4	...	1	1	1	...	...	...	...	...	...	1	...	
5	...	...	...	...	...	...	1	...	...	...	1	...	
6	...	...	...	...	...	...	1	...	...	...	1	...	
7	...	...	...	...	...	...	1	...	...	...	1	...	
8	...	...	...	...	...	1	...	...	...	...	1	...	
9	...	...	...	...	...	1	...	...	...	...	1	...	
10	...	...	...	...	...	...	...	...	...	...	...	1	
11	...	...	...	...	...	...	...	...	...	...	...	1	
12	...	...	...	...	1	...	...	...	...	...	1	...	
13	..	...	...	...	1	...	...	...	...	...	1	...	
14	...	...	...	...	...	...	...	...	1	...	...	1	
15	...	...	...	...	...	...	...	...	...	...	...	1	
16	...	...	...	...	...	...	...	1	...	...	...	1	
17	...	...	...	...	...	...	...	1	...	...	...	1	
18	...	...	...	...	...	...	...	1	...	...	...	1	
19	...	...	...	...	...	...	...	...	...	...	...	1	
20	...	...	...	...	...	...	...	...	...	...	..	1	
21	...	...	...	...	...	...	...	...	...	...	...	1	
22	...	...	...	...	...	...	...	...	...	...	...	1	
23	...	...	...	...	...	...	...	...	...	...	...	1	
24	...	...	...	...	...	...	...	...	...	...	...	1	
25	1	...	...	...	...	...	...	...	...	...	...	1	
26	...	...	...	...	...	...	...	...	...	...	...	1	
27	...	...	...	...	...	...	...	...	...	...	...	1	
28	...	...	...	...	...	...	...	...	...	...	...	1	
29	...	...	...	...	...	...	...	...	...	...	...	1	
30	...	...	...	...	...	...	...	...	...	...	...	1	
31	...	...	..	...	...	...	...	..	...	1	...	1	No. 8 slide.
32	...	...	...	...	...	...	...	...	...	1	...	1	,, ,,
33	...	...	...	...	...	...	...	...	1	...	...	1	
34	...	...	...	...	...	...	...	...	...	...	...	1	
35	...	...	...	...	...	...	...	...	...	...	1	...	
36	...	...	...	...	...	...	...	...	1	...	...	1	
37	...	...	..	...	...	...	...	...	...	...	...	1	
38	...	...	...	...	...	...	...	...	...	...	...	1	
39	...	...	...	...	...	...	...	...	...	...	...	1	
40	...	...	...	...	...	...	...	...	...	...	...	1	
41	...	...	...	...	...	...	...	...	...	...	...	1	
42	...	...	...	...	...	...	...	...	...	...	...	1	
43	...	...	...	...	...	...	...	...	...	...	...	1	

Appendix IX—*continued.*

Spanners and Special Implements for Land Service Mountings—*continued.*

Vocabulary No.	Description.	B.L.										Proportions.	
		6″	Barbette.							Disappearing.			
			10″ Marks			9″·2 Marks			6″	6″ Marks			
		V.C.P.	I	II	III	I	II	III	Mark II.	I	II to IV	Per mounting.	Per work.
	Spanners—continued.												
12	Nozzle, pipe, connecting buffer ...	...	...	...	1	...	...	...	...	...	...	...	1
	Nuts, elevating pinion	...	...	...	...	...	..	...	1	...	...	...	1
13	Union delivery pipe...	...	...	...	1	...	...	...	...	...	...	...	1
14	Union pipe, connecting buffer, and union suction pipe, pump hydraulic pivot gear	...	...	...	1	...	...	...	...	...	...	...	1
15	Air plug, gland, and discharge pipe, running back pump; also	...	1	...	...	1	...	...	...	...	...	1	...
	Inner delivery pipe, hydraulic pivot gear, 10″, Mark III ...	...	...	1	1	...	1	...	...	...	...	...	1
16	Cap, valve box (large), pump running back pump	...	...	1	1	...	1	...	...	...	...	...	1
17	Cap, valve box (medium), running back pump	...	1	...	...	1	...	...	...	...	...	1	...
	Cap, valve box (medium), running back pump	...	...	1	1	...	1	...	...	...	...	...	1
18	Cap, valve box (small), running back pump	...	1	...	...	1	...	...	...	...	...	1	...
19	Plug, bottom, running back pump	..	...	1	1	...	1	...	...	...	...	...	1
20	Bolt, connecting, pivot block (with tommy, No. 5).	...	1	...	...	1	...	...	...	...	...	1	...
	And bolts, front clip (with tommy, No. 5)	...	...	...	...	...	...	1	...	...	...	...	1
21	Bolts, holding-down (with tommy, No. 6)	...	1	...	...	1	...	...	...	...	...	1	...
22	Plug, bottom end of pivot... .	...	1	...	...	1	...	...	...	...	...	1	...
23	,, top end of pivot	...	1	...	...	...	...	...	...	..	...	...	1
24	Arm, radial, racer	...	...	...	1	...	...	...	...	...	...	...	1
25	Racer (large, with tommy, No. 3)	...	...	1	1	...	1	...	...	...	...	...	1
26	,, (small, ,, ,, No. 4)	...	...	1	1	...	1	...	...	...	...	...	1
27	Pins, hinge, roof of shield and bolts, securing, traversing worm wheel, and pinion, elevating spindle	1	...	...	..	...	...	...	...	...	...	...	1
28	Gland, raising valve	...	...	...	...	...	...	...	...	1	...	...	1
29	Nuts, recoil cylinder cover ...	...	...	...	...	...	...	...	...	1	...	...	1
30	Nut, elevating shaft	...	...	...	...	...	...	...	...	2	2	...	2
31	Pipe with tommy, No. 7 connections to pump	...	...	...	...	...	...	...	...	...	1	...	1
32	Gland, inner, recoil cylinder ...	...	...	...	...	...	...	...	...	...	1	...	1
33	,, outer, ,, ,, ...	...	...	...	...	...	...	...	...	...	1	...	1
34	Plug, air chamber, large recoil cylinder	...	...	...	...	...	...	...	...	...	1	...	1
35	Plug, air chamber, small recoil cylinder	...	...	...	...	...	...	...	...	...	1	1	...
36	Socket, with tommy, No. 8 ram, recoil cylinder	...	...	...	...	...	...	...	...	...	1	1	...

Appendix IX—*continued.*

Spanners and Special Implements for Land Service Mountings—*continued.*

Vocabulary No.	Description.	B.L. Disappearing. 10″, Marks I	10″, Marks II	9″·2, Marks I	9″·2, Marks II	6″, Marks I	6″, Marks II to IV	Proportions Per mounting.	Proportions Per work.
	Spanners—continued.								
37	Recoil valve, seating, recoil cylinder ...	...	...	...	...	...	1	1	...
38	Packing ring, lowering pump	...	...	...	...	1	1	...	1
39	Cover of springs, ram, recoil cylinder ...	...	...	1	...	...	...	...	1
40	Nut, bolt, head of ram, recoil cylinder, and 3rd motion, elevating shaft	...	...	1	...	...	...	...	1
41	Nuts, cover, recoil cylinder	...	...	1	...	...	...	1	...
42	Plug, centre, recoil cylinder	...	...	1	...	...	...	...	1
43	Ring, gland, recoil cylinder	...	...	1	...	...	...	1	...
44	Covers, recoil valves and air chamber plugs, recoil cylinder	1	...	1	...	...	...	1	...
45	Cover of springs, ram, recoil cylinder ...	1	...	...	...	...	...	...	1
46	Nuts, adjusting, 3rd motion, elevating shaft	1	...	1	...	...	...	...	1
47	Nut, bolt, head of ram, recoil cylinder, and 3rd motion, elevating shaft	1	...	...	...	...	...	...	1
48	Nuts, recoil, cylinder cover	1	...	...	...	...	...	1	...
49	Ring, gland, recoil cylinder	1	...	...	...	...	...	1	...
50	Seating, recoil valves, recoil cylinder ...	1	...	1	...	...	...	1	...
51	Valve, filling, recoil cylinder...	1	...	1	...	1	1	...	1
52	,, raising, recoil cylinder, and nuts, adjusting, 1st motion, elevating shaft ...	1	...	1	...	...	...	...	1
53	Ring, packing, lowering pump	1	...	1	...	...	...	...	1
54	Buckets for pumps, small	...	1	...	1	...	...	1	...
55	Bolts, cylinder cover, and bolts, buffer (with tommy, No. 10)	...	1	...	1	...	...	1	...
56	Bolts, cylinder cover (with tommy, No. 11)	...	1	...	1	...	...	1	...
57	Covers, valve (pumps)	...	1	...	1	...	...	1	...
58	Gland, raising valve	...	1	...	1	...	...	1	...
59	Hexagon, ring ($4\frac{7}{8}$ inches across flats) ...	...	1	...	1	...	...	1	...
60	,, ,, (4 ,, ,, ,,) ...	...	1	...	1	...	...	1	...
61	Studs, gland, cylinder	...	1	...	1	...	...	1	...
62	Unions, copper pipe, large	...	1	...	1	...	...	1	...
63	,, ,, ,, small	...	1	...	1	...	...	1	...

Vocabulary No.	Description.	B.L. Garrison. 12″.	Q.F. 12-pr.	Pumps, air, double.	Proportions. Per mounting.	Proportions. Per work.
	Spanners—continued.					
94	Cradle lubricator and guard screws	...	1	...	1	...
95	Nuts, adjusting cones, elevating gear	1	...	...	...	1
96	Gland, delivery valve, also spring box and small plunger	...	...	1	...	1
97	Nut, large, plunger	...	.	1	...	1
98	Pipe, connecting, also water suction valve stop	...	...	1	...	1

Appendix IX—*continued.*

Spanners and Special Implements for Land Service Mountings—*continued.*

Vocabulary No.	Description.	R.M.L.					Gauge pressure, dead weight testing, Mk. II.	Indicator pressure, spring.	Pumps, air, double.	Proportions.		Remarks.
		10"·4	9" and 10"	7"	Siege.							
		Barbette.	High angle. Mark III	Moncrieff.	6"·6 gun.	40 and 25 pr.				Per mounting.	Per work.	
	Spanners—continued.											
99	Valve, delivery, also water suction valve	...	...	...	...	...	...	...	1	...	1	
100	Screw, closing, delivery valve	...	...	...	...	...	...	...	1	...	1	
101	Gland, piston	...	...	...	...	...	1	...	...	...	...	1 per gauge
102	Connections	...	...	...	...	...	1	...	...	...	...	,, ,,
103	Indicator pressure, also connections, H.P. carriages ...	...	...	...	...	...	...	1	...	...	...	1 per indicator.
104	Connections, pressure, indicator, also plug and gland connection and filling valve, H.P. carriages	...	...	..	...	...	...	1	...	...	...	1 per indicator.
109	Double-ended (1" and $\frac{7}{8}$") ...	...	...	...	1	...	...	...	...	1	...	
110	,, ,, ($\frac{3}{4}$" and $\frac{5}{8}$") ...	...	...	...	1	...	...	...	...	1	...	
111	$1\frac{1}{4}$" lock nut	...	...	...	1	...	...	...	...	1	...	
112	,, ,, and air plug ...	...	...	...	1	...	...	...	...	1	...	
113	Gland, recoil cylinder	...	...	...	1	...	...	...	.	1	...	
114	Socket, 2"	...	...	...	1	...	...	...	...	1	...	
115	Lock nut	...	...	...	...	1	...	...	...	...	...	1 per 3 or less number.
116	Small	...	...	...	...	1	...	...	...	...	...	1 per 3 or less number.
117	Nut, friction cone, elevating gear	...	...	*1	...	...	...	...	...	1	...	*Mark I mounting.
118	Adjusting recoil valve	...	1	...	...	...	...	...	...	1	...	
119	Bolt, capsquare (with tommy, No. 12)	...	1	...	...	...	...	...	...	...	1	
120	Bolting cradle together ...	...	1	...	...	...	...	...	...	...	1	
121	Coupling, pipes connecting hydraulic cylinders and air cylinders...	...	1	...	...	...	...	...	...	...	1	
122	Coupling, supply pipe, gland, supply valve, and rear cap ...	...	1	...	...	...	...	...	...	...	1	
123*	Recoil cylinder	...	1	...	...	...	...	...	...	...	1	*Mark II spanner.
124	Gland, recoil cylinder	...	1	...	...	...	...	...	...	...	1	
125	,, outer, recoil valve ...	...	1	...	...	...	...	...	...	...	1	
126	Nut, ram	...	1	...	...	...	...	...	...	...	1	
127	Valve, discharge, with screwdriver	...	1	...	...	...	...	...	...	1	...	
128	Valves, oil, level and supply ...	...	1	...	..	...	...	...	...	1	...	
129	Axle, truck, slide L	1	...	...	...	...	...	...	..	...	1	
130	,, traversing wheel ...	1	...	...	...	...	...	...	...	...	1	
131	Nozzle, and plug cock, washing out apparatus	1	...	...	...	...	...	...	...	...	1	

Appendix

Spanners and Special Implements for Land

Vocabulary No.	Description.	B.L.	Q.F.				R.M.L.			
			4".7 C.P.				12".5			
								Small Port.		
		Disappearing 6-inch, Mark IV.	Marks I and I*	Mark II	Mark III	6-pr. recoil.	Casemates and dwarfs.	6-ft. recoil.	7-ft. recoil.	
	Spanners—continued.									
132	Nut, securing, rammer, head	...	...	...	...	...	...	...	...	1
133	Piece, union, apparatus, washing out (with tommy, No 14)	...	...	...	...	...	...	...	...	2
134	Pinion, spindle, elevating and coupling pipe, apparatus, washing out	...	...	...	...	...	...	...	...	3
135	Tightening, wire rope, gear loading	...	...	...	...	...	...	...	...	4
136	Bolts, connecting, pivot block (with tommy, No. 3)	...	...	...	...	...	...	...	...	5
137	Bolts, holding-down	...	...	...	...	...	...	...	...	6
138	Caps, valves, inlet and outlet, and gland, crank spindle, jack-lifting hydraulic, rear roller	...	...	...	...	...	1	1	1	7
139	Plugs, valves, inlet and outlet, and gland outside release valve, jack-lifting hydraulic, rear roller	...	...	...	...	...	1	1	1	8
140	Pump, and pump cap (with tommy, No. 15), jack-lifting hydraulic, rear roller	...	...	...	...	...	1	1	1	9
141	Screws, cover and crank, jack-lifting hydraulic, rear roller	...	...	...	...	...	1	1	1	10
142	Screws, securing, packing of ram plunger cap, and air screw, jack-lifting hydraulic, rear roller	...	...	...	...	...	1	1	1	11
143	Tightening chain, slide L (socket, with tommy, No. 16)...	...	...	...	...	...	1	1	1	12
144	Cap, pump, hydraulic lift	...	...	...	...	...	...	1	1	13
145	Cover, cistern, and run-off plug, hydraulic lift	...	...	...	...	...	...	1	1	14
146	Valve, release, also filling plug and pump plunger, hydraulic lift	...	...	...	...	...	...	1	1	15
147	Valve, suction, hydraulic lift	...	...	...	...	...	...	1	1	16
148	Jack-lifting hydraulic, Tangye's (with tommy, No. 17)	...	...	...	...	...	...	...	...	17
149	Cradle lubricators	...	1	1	1	...	...	...	...	18
150	Socket, plunger, controlling running out, with screw-driver ends for filling plugs, and screws for shield	...	1	...	1	...	...	...	...	19
151	Nut, socket and cone...	...	...	...	...	1	...	...	...	20
152	Screw, set, pedestal	...	...	...	...	...	...	...	...	21
153	Nut, friction cone, gear elevating	...	...	...	...	...	...	...	...	22
154	Bolts, bearings, box, screw elevating (cranked)	...	...	...	...	...	...	...	...	23
155	,, ,, ,, ,, (plain) ...	...	...	...	...	...	...	...	...	24
157	Stud nuts, bar supporting plungers, and screws cap locking bolt; also for use with spanners, Nos. 158 and 159	...	...	...	...	...	...	...	...	25
158	Plug overflow valve	...	...	...	...	...	...	...	...	26
159	Seating, intermediate valve	...	...	...	...	...	...	...	...	27
160	Nuts, securing small plungers, pipe unions, adapters, and holding down bolts	...	...	...	...	...	...	...	...	28
161	Metal seating for raising valve	1	...	...	...	...	...	...	...	29
162	Nut, spindle, spring, front trunk block... ...	...	...	...	...	...	...	...	...	30

57
Gen. No.
7739

38407
Equip.
1685

IX—*continued.*

Service Mountings—*continued.*

	R.M.L.				Field machine gun, infantry, Nord. 3 barrel, & Gard. 2 barrel.	Jack, hydraulic, Tangye's.	Pump, air or liquid.	Proportions.		Remarks.
	12" 35-ton.	10"·4 Barbette.	10"	16-pr.				Per mounting.	Per work.	
1	...	1	...	...	...	...	...	...	1	
2	...	1	...	...	...	...	...	...	1	
3	...	1	...	...	...	...	...	...	1	
4	...	1	...	...	...	...	...	...	1	
5	...	1	...	...	...	...	...	1	...	
6	...	1	...	...	...	...	...	1	...	
7	1	...	...	...	...	...	...	...	1	
8	1	...	...	...	...	...	...	...	1	
9	1	...	...	...	...	...	...	...	1	
10	1	...	...	...	...	...	...	...	1	
11	1	...	...	...	...	...	...	...	1	
12	1	...	...	...	...	...	...	...	...	1 per 6 guns or less.
13	...	...	...	...	...	...	...	...	1	
14	...	...	...	...	...	...	...	...	1	
15	...	...	...	...	...	...	...	...	1	
16	...	...	...	...	...	...	...	...	1	
17	...	...	...	...	...	1	...	...	...	1 per jack.
18	...	...	...	...	...	...	...	1	...	
19	...	...	...	...	...	...	...	1	...	
20	...	...	...	...	...	...	...	1	...	
21	...	...	...	...	1	...	...	1	...	
22	...	1	...	...	...	...	...	...	1	
23	...	...	...	1	...	...	...	...	...	1 per 6 guns or less.
24	...	...	...	1	...	...	...	...	...	,, ,, ,,
25	...	...	...	...	...	...	1	...	...	1
26	...	...	...	...	...	...	1	...	...	1
27	...	...	...	...	...	...	1	...	...	1 per pump.
28	...	...	...	...	...	...	1	...	...	1
29	...	...	...	...	...	...	...	...	1	
30	...	...	†1	...	...	...	...	...	1	†7 ft. parapet C, Mark II only.

Appendix

Spanners and Special Implements for Land

	Vocabulary No.	Description.	B.L.							
			6"	Barbette.			Dis-appearing.			
				10"	9"·2		10"	9"·2	6"	
			V.C.P.	Mark I.	Mark I.	Mark III.	Mark I.	Mark I.	Marks II to IV.	
		Spanners—continued.								
	63	Glands, valve, filling or drain, and union pipe, filling	...	...	...	...	...	...	...	1
	164	Glands, spindles, valve recoil, for use with No. 165 spanner	...	...	...	...	...	...	...	2
	165	Unions, pipe, connecting air chambers	...	...	...	...	...	...	...	3
	166	Valves, filling, and oil level	...	...	...	...	...	...	...	4
	167	Spindles, valves, recoil	...	...	...	...	...	...	...	5
	168	Piston-rod, and pipe connecting hydraulic chambers	...	...	...	...	...	...	...	6
	169	Pipe connecting hydraulic chambers, and nut, piston-rod	...	...	...	...	...	...	...	7
	170	Gland, rod, piston, outer, and cap, air buffer	...	...	...	...	...	...	...	8
	171	Gland, rod, piston, inner	...	...	...	...	...	...	...	9
	172	Plugs, steel, hydraulic chambers	...	...	...	...	...	...	...	10
	173	Glands, ram, inner and outer	...	...	...	...	...	...	...	11
57 Gen. No. 7739	174	Pipe, connections to pump (with tommy, No. 29)	...	...	...	...	1	1	...	12
	184	Socket, controlling, running out plunger, with screwdriver end for filling plug	...	...	...	...	...	...	...	13
	186	Spring compressor and cover for springs	...	...	...	...	...	...	...	14
	187	Pinion elevating	...	...	...	...	...	...	...	15
57 Gibraltar 6678	188	Nuts of plunger controlling running out, and stop depression	...	...	...	...	...	...	...	16
	190	Sighting gear	...	...	...	...	...	...	...	17
7239	191	Seating raising valve	...	...	...	...	...	...	1*	18
	192	Socket (with tommy No. 4) screws, front clip	...	...	...	1	...	...	...	19
71 1 7803	194	Nut, pin, loading arm	...	...	...	1	...	...	...	20
	195	Spindle, trunnion ball bearings	...	...	...	1	...	...	...	21
	197	Ring, packing, lowering pump	...	...	...	...	1	...	...	22
	198	Nut, piston rod	...	...	...	...	1	...	...	23
	199	Nut, adjusting spring, friction clutch	...	...	...	...	1	...	...	24
	200	Gland, centre, lowering pump	...	...	...	...	1	...	...	25
		Drivers, screw.								
	2	Plugs, lowering, pump	...	...	...	...	1	1	...	26
	3	{ Valves, rotating, piston rod	1	...	...	...	...	...	...	27
		{ Plug, adjusting controlling plunger	...	...	...	1	...	...	...	28
	4	Bearings, roller axle, and pinion spindle carriage	...	1	1	...	...	...	...	29
	5	Bearings, roller axle, carriages, outer racer, traversing rack, and metal blocks, slide	...	...	...	...	...	...	...	30
	6	Plate, top of shield and front clip	...	...	...	1	...	...	...	31
	8	Screws, cradle cover, and protecting shield	...	...	...	...	...	...	...	32
	9	(Three-legged)	...	...	...	...	...	...	...	33
	10	Indicator pressure, carriages, garrison, H.P.	...	...	...	...	...	...	...	34
	11	Screws, spindle, recoil valve, and cover, valve, air chamber	...	...	...	...	...	...	...	35
57 Gibraltar 6678	13	Air, filling, and drain plugs, contact boxes and tank cover screws	...	...	...	...	...	...	...	36
		Eyes, lifting								
71 1 8528		Cradle	...	...	...	...	...	...	...	37
		Pivot, also front clip	...	...	...	1	...	...	...	38
		Levers.								
	1	Cap, recoil, cylinder	...	...	...	...	...	...	1	39
	2	Lengthening, gland spanners, recoil, cylinder	...	...	...	...	...	...	1†	40
71 1 8118	3	" " " "	...	...	...	...	1	1	...	41
	4	" spanners	...	...	...	1	...	...	...	42
	6	For use with driver screw, No. 6, and screw, adjusting shield section	...	...	...	1	...	...	...	43

IX—*continued.*

Service Mountings—*continued.*

	Q.F.					R.M.L.				Indicator pressure, spring.	Proportions.		Remarks.
		4″·7 C.P.				10″·4	9″		Siege.				
							High angle.						
							Marks						
	6-inch.	Mark I.	Mark II.	Mark III.	12-pr.	Barbette.	I.	II.	6″·6 gun.		Per mounting.	Per work.	
1	...	...	...	...	...	...	...	1	...	...	...	1	
2	...	...	...	...	...	...	...	1	...	...	...	1	
3	...	...	...	...	...	...	...	1	...	...	...	1	
4	...	...	...	...	...	...	...	1	...	...	...	1	
5	...	...	...	...	...	...	...	1	...	...	...	1	
6	...	...	...	...	...	...	...	1	...	...	...	1	
7	...	...	...	...	...	...	...	1	...	...	...	1	
8	...	...	...	...	...	...	...	1	...	...	...	1	
9	...	...	...	...	...	...	...	1	...	...	...	1	
10	...	...	...	...	...	...	...	1	...	...	...	1	
11	...	...	...	...	...	...	1	...	...	...	...	1	
12	...	...	...	...	...	...	...	...	...	...	...	1	
13	...	...	1	...	...	...	...	...	...	...	...	1	
14	1	...	...	...	...	...	...	...	...	...	...	1	
15	1	...	...	...	...	...	...	...	...	...	...	1	
16	1	...	...	...	...	...	...	...	...	...	...	1	
17	1	...	1	...	1	...	...	...	...	...	1	1*	* 6 inch only.
18	...	...	...	...	...	...	...	...	...	...	...	1	* Marks II and II* only.
19	...	...	...	...	...	...	...	...	...	...	...	1	
20	...	...	...	...	...	...	...	...	...	...	...	1	
21	...	...	...	...	...	...	...	...	...	...	...	1	
22	...	...	...	...	...	...	...	...	...	...	1	...	Mark IA only.
23	...	...	...	...	...	...	...	...	...	...	1	...	
24	...	...	...	...	...	...	...	...	...	...	1	...	
25	...	...	...	...	...	...	...	...	...	...	1	...	
26	...	...	...	...	...	...	...	...	...	...	...	1	
27	...	...	...	...	...	...	...	...	...	...	...	1	
28	...	...	...	...	...	...	...	...	...	...	...	1	
29	...	...	...	...	...	...	...	...	...	...	...	1	
30	...	...	...	...	...	1	...	...	...	...	...	1	
31	...	...	...	...	...	...	...	...	...	...	...	1	
32	...	1	1	1	...	...	...	...	...	...	1	...	
33	...	...	...	...	...	...	...	...	1	...	1	...	
34	...	...	...	...	...	...	...	...	...	1	...	...	1 per indicator.
35	...	...	...	...	...	...	...	1	...	...	...	1	
36	1	...	...	...	...	...	...	...	...	...	...	1	
37	1	1	...	1	...	...	...	...	...	...	...	1	
38	1	...	...	1	...	...	...	...	...	...	...	1	
39	...	...	...	...	...	...	...	...	...	...	...	1	
40	...	...	...	...	...	...	...	...	...	...	...	1	† Also for 6-inch Mark I.
41	...	...	...	...	...	...	...	...	...	...	...	1	
42	...	...	...	...	...	...	...	...	...	...	...	1	
43	...	...	...	...	...	...	...	...	...	...	...	1	

Appendix

Spanners and Special Implements for Land

Vocabulary No.	Description.	B.L.										
		Barbette.						Disappearing.				
		10″, Marks			9″·2 Marks			10″ Marks		9″·2 Marks		
		I	II	III	I	II	III	I	II	I	II	
	Loops, lifting.											
1	Valve, running back, pump	1	...	...	1	...	...	...	...	...	...	1
2	,, ,, ,, ...	...	1	1	...	1	...	...	...	...	...	2
3	Valve (pump)	...	...	...	...	...	...	...	1	...	1	3
4	,, delivery	...	...	...	...	...	...	...	...	...	...	4
5	Ring packing, lowering pump and ram gland, dispg. B.L. 10″ and 9″·2, Mark I, also ram gland, dispg. B.L. 6″, Mark II to IV, and ring packing hydraulic buffer, barbette, B.L. 9″·2, Mark III	...	...	...	...	...	...	2	...	2	...	5
		...	...	...	...	...	2	...	...	...	...	6
6	Worm, elevating, also withdrawing roller, axles	...	...	...	...	...	...	...	...	...	...	7
	Screws, Adjusting.											
	Shield sections	...	...	...	...	...	1	...	...	...	...	8
	Tommies.											
1	Adjusting pins, rear supporting frame	...	1	...	...	1	...	...	...	...	...	9
2	For spanner, No. 8	...	1	1	...	1	...	...	...	...	...	10
3	,, ,, ,, 25 and 136	...	1	1	...	1	...	...	...	...	...	11
4	,, ,, ,, 24, 26 and 192... ...	...	1	1	...	1	1	...	...	...	...	12
5	,, ,, ,, 20	1	...	...	1	...	1	...	...	...	...	13
6	,, ,, ,, 21	1	...	...	1	...	...	...	...	...	...	14
7	,, ,, ,, 31	...	...	...	...	...	...	...	...	...	...	15
8	,, ,, ,, 36	...	...	...	...	...	...	...	...	...	...	16
9	Bolt, clamping, elevator	...	...	...	...	...	...	1	...	1	...	17
10	For spanners, No. 55, 57, and 61 ...	...	...	...	...	...	...	...	1	...	1	18
11	,, ,, ,, 56	...	...	...	...	...	...	...	1	...	1	19
12	,, ,, ,, 119	...	...	...	...	...	...	...	...	...	...	20
13	Screw, adjusting, trunnion ball bearings	...	...	...	...	...	...	...	...	...	...	21
14	For spanner, No. 133	...	...	...	...	...	...	...	...	...	...	22
15	,, ,, ,, 140	...	...	...	...	...	...	...	...	...	...	23
16	,, ,, ,, 143	...	...	...	...	...	...	...	...	...	...	24
17	,, ,, ,, 148	...	...	...	...	...	...	...	...	...	...	25
18	(Large), hydraulic lift	...	...	...	...	...	...	...	...	...	...	26
19	(Small), ,, ,, ...	...	...	...	...	...	...	...	...	...	...	27
20	Carriages, Q.F. recoil, 6 pr.	...	...	...	...	...	...	...	...	...	...	28
21	For spanner, hydraulic buffer, No. 21	...	...	...	...	...	...	...	...	...	...	29
22	,, ,, ,, ,, 45	...	...	...	...	...	...	...	...	...	...	30
23	Carriage, siege, R.M.L. 6″·6 gun ...	...	...	...	...	...	...	...	...	...	...	31
24	For spanner, No. 77	...	...	...	...	...	...	...	...	...	...	32
25	,, ,, ,, 78	...	...	...	...	...	...	...	...	...	...	33
26	,, ,, ,, 90 and 92	...	...	...	...	...	...	...	...	...	...	34
27	,, ,, ,, 83	...	...	...	...	...	...	...	...	...	...	35
28	,, ,, ,, 89	...	...	...	...	...	...	...	...	...	...	36
29	,, ,, ,, 174	...	...	...	...	...	...	1	...	1	...	37

71
1
8118

IX—*continued.*

Service Mountings—*continued.*

	B.L.	Q.F.		R.M.L.								Jack, hydraulic, Tangye's.	Pump, air, double.	Proportions.		Remarks.
	Disappearing			12" 5			12"		10"·4	9"	Siege.					
	6" Mark				Small Port.					High angle.						
	II to IV.	4"·7 C.P.	6-pr. recoil.	Casemate and dwarf.	6-ft. recoil.	7-ft. recoil.	35-ton.	25-ton, or 11".	Barbette.	Mark III.	6"·6 gun.			Per mounting.	Per work.	
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
4	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2 to a set.
6	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
7	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	Issued with spanners.
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
11	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
15	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
16	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Issued with spanners.
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
20	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
21	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	
22	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	Issued with spanners.
23	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	
24	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	
25	...	...	...	...	...	...	...	...	...	...	...	1	..	...	...	
26	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	
27	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	
28	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	
29	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	Issued with spanners.
30	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	Issued with spanners: tension buffers only.
31	...	...	...	...	...	...	..	...	...	...	1	...	...	1	...	
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Issued with spanners.
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
34	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
37	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	

Appendix IX—*continued.*

Spanners and Special Implements for Land Service Mountings—*continued.*

Vocabulary No.	Description.	B.L.											Q.F.			Medium slides.	Proportions.		Remarks.
		6″	Barbette.					Disappearing.			Travelling.								
			10″, Marks		9″·2 Marks		6″	10″	9″·2	6″									
		V.C.P.	I	III	I	III		Mark I	Mark I	Marks II to IV	5″, 6-ft. parapet.	4″, 6-ft. parapet.	6″	4″·7 C.P.	12 pr.		Per mounting.	Per work.	
	Wrenches, pivot.																		
5	Band, elevating (with tommy) ...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	1	
6	Band, elevating ...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	57 Gib. 6678 71 1 8118
	And screws, elevating arc	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	
	Also screws, elevating arc, band retaining gun in cradle, and preserving hole for lifting eye... ...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
7	Band, elevating ...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	
8	Band, elevating (with keep screw spanner)	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	
10	Arc, elevating, controlling plunger, air-filling and drain plugs ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	
11	Arc, elevating ...	...	...	...	...	...	...	...	...	...	...	...	...	*1	...	...	1	...	57 Gen. No. 7739 71 1 8528
	Also screws of inner shield	...	...	...	...	...	...	...	...	...	...	...	...	†1	...	...	1	...	
	Wrenches, circular, hydraulic buffer.																		
1	Gland, rings... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	‡1	...	‡1	
2	(And screwdriver) securing valve and valve block, with tommy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	‡1	...	‡1	

* Marks I and III. † Mark II. ‡ No. 8 slide.

APPEN

Component and Spare Parts of Hydraulic Gear, for B.L. 12-

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Portsmouth
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Designation.			Detail.	
GEAR, HYDRAULIC.				
Brackets	fixing elevating engine		Iron	1
	guide, clutch lever traversing		,, with pin and chain	2
		lower tier upper ,,	,, ,, bolts, stud, and pin	3
	shaft, clutch lever, traversing	lower ,, upper ,,	Metal, with screws	4
		lower ,, upper ,,	Iron ,, ,,	5
	1st motion shaft traversing		Metal ,, ,,	6
	4th motion shaft front traversing		,, ,, ,,	7
	stop, jib, loading		Iron ,, catch and screws	8
Elevating.				
Axles, roller	fork, tightening chain			9
	guide chain		Steel, with collar and taper pin	10
Chains			,, endless, with connecting screw and nut	11
Fork, tightening chain			Iron, with nuts	12
Rollers	fork, tightening chain		,,	13
	guide chain		Metal	14
Screws, connecting chain			Steel, with nut	15
Wheels, sprocket				16
	large		Iron	17
	small		Steel	18
Engine—				19
			Parts of—	
Casing, 3-cylinder			Metal	20
Connections, copper pipe			,, (2 to a set) sets	21
Covers, casing	plain		,,	22
	valve		,,	23
Cranks	large		Steel	24
	small		Metal	25
Ferrule, cover valve joint			,,	26
Lubricators			,,	27
Pipes	copper		⅝-in. bore × ⅞-in. dia. (length of 4-ft.) lengths	28
	valve		Metal	29
Pistons			,, with leather, nut and taper pin	30
Plugs, cylinder			,,	31
Rings	bearing, spiral spring		,,	32
	keep, connecting rods		,,	33
	securing	packing	,,	34
		valve leathers	,, with keep screw	35
	packing	L section: pistons	Leather	36
		L section: valve rotating	,,	37
		U section	,,	38
Rods, connecting			Cast-iron	39
Springs, valve			Phosphor, bronze, spiral	40
Studs, covers	1½-in.		With nuts	41
	⅝ ,,		,, ,,	42
Valve, rotating			Metal	43
Washers, packing			(1 gutta-percha and 4 leather to a set) sets	44
Loading derrick.				
Arm, loading tray			Steel, with strap, cotter, and spring catch	45
Ball, wire rope				46

DIX X.

inch Mountings, at No Man's Land and Horse Sand Forts.

	B.L. 12-in.		Proportion of spare per fort.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	1	1	...	...	
2	1	...	...	...	
3	...	1	...	...	
	...	1	...	...	
4	2	...	...	...	
	2	...	...	...	
5	...	2	...	...	
	...	2	...	...	
6	...	1	...	...	
7	1	...	...	...	
8	1	...	...	...	
9	..	1	...	...	
10	1	...	...	...	
11	1	1	2	2	
12	1	1	...	...	
13	1	1	...	...	
14	1	...	...	...	
15	...	...	2	2	
16	...	1	...	...	
17	1	...	...	...	
18	1	...	...	...	
19	1	1	1	1	
20	1	1	...	...	
21	1	1	2	2	
22	1	1	...	...	
23	1	1	...	...	
24	1	1	...	...	
25	1	1	...	...	
26	1	1	...	...	
27	2	2	...	...	
28	2	2	2	4	
29	1	1	...	...	
30	3	3	...	...	
31	3	3	...	...	
32	1	1	...	...	
33	2	2	...	...	
34	1	1	...	...	
35	1	1	...	...	
36	3	3	24	30	
37	2	2	16	20	
38	1	1	8	10	
39	3	3	...	...	
40	1	1	2	2	
41	6	6	...	...	
42	6	6	...	...	
43	1	1	2	4	
44	1	1	8	10	
45	1	...	...	...	
	...	1	...	...	
46	1	...	...	...	
	...	1	...	...	

Appendix X

Component and Spare Parts of Hydraulic Gear, for B.L. 12-inch

Designation.	Detail.	
GEAR, HYDRAULIC—*continued.*		
Loading derrick—continued.		
Bracket, bottom sheave	... ...	1
Bush, derrick cylinder	Metal, with pipe, ferrule, and 2 set screws	2
Connections exhaust pipe	,, ...	3
	,, with pipe unions	4
Connections pipe valve to ... derrick cylinder...	,, ,, ,, ...	5
Connections pipe valve to ... jigger	,, ...	6
Connections supply pipe	,, ...	7
	,, with pipe unions	8
Cylinder jigger	,, ,, caps and bolts	9
	,, ,, cap ,, ...	10
Flange, swivel joint...	,, in 2 parts	11
Gland, ram	,, ...	12
	,, ...	13
Keys, housing wire rope	Iron	14
Pins sheave bottom	Steel	15
Pins sheave centre	,, ...	16
	,, ...	17
Pins sheave upper and lower ...	,, with collar and pin	18
Pins split, for sheave pin	... ...	19
Pins loading tray	Steel with collar and nut	20
Pipes derrick to jigger cylinder ...	Copper, ¾-in. bore, $\frac{9}{16}$-in. dia., with fittings (length of * lengths)	21
Pipes exhaust	,, ,, ,, ,,	22
Pipes supply	,, ,, ,, ,,	23
Pipes valve to derrick cylinder ...	,, ,, ,, ,,	24
Pipes valve to jigger	,, ,, ,, ,,	25
Ram, jigger	Metal	26
	,, ...	27
Rings packing ram	Leather, U section	28
	Metal	29
Rings packing swivel, joint flange ...	Leather, U section	30
Rings securing packing	Metal, for jigger ram	31
Rope, wire	Steel, with eye splice and hook without ball	32
	,, ,, ,, ,,	33
Sheaves bottom	Metal, guiding wire rope to bollard ...	34
Sheaves centre	,, ...	35
	,, ...	36
Sheaves upper and lower	,, ...	37
	,, ...	38
Tray, loading	,, ...	39
	,, ...	40
Valve-chest	,, in 2 parts, with studs and nuts, also slide valve, rod, and socket lever, with taper pin	41
		42
	Parts of—	
Glands	Metal	43
	,, ...	44
Levers hand	Steel	45
	,, ...	46
Levers slide valve	,, with nut	47
	,, ,, collar, nut, and taper pin ...	48

* Demands should

—*continued.*

Mountings, at No Man's Land and Horse Sand Forts—*continued.*

	B.L. 12-in.		Proportion of spare per fort.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	1	...	...	...	
	...	1	...	...	
2	...	1	...	...	
3	2	...	4	...	
4	...	1	...	2	
5	...	1	...	2	
6	2	...	4	...	
7	2	...	4	...	
8	...	1	...	2	
9	1	...	...	...	
10	...	1	...	...	
11	...	1	...	...	
12	1	...	...	...	
13	...	1	...	...	
14	...	2	...	...	
15	1	1	...	...	
16	1	...	2	...	
17	...	1	...	2	
18	2	...	4	...	
	...	2	...	4	
19	2	2	2	2	
20	1	...	...	...	
21	...	1	...	1	
22	1	...	1	...	
	...	1	...	1	
23	1	...	1	...	
	...	1	...	1	
24	...	1	...	1	
25	1	...	...	...	
26	1	...	...	...	
27	...	1	...	...	
28	...	1	...	10	
29	1	...	...	...	
30	...	1	...	10	
31	...	1	...	...	
32	1	...	1	...	
33	...	1	...	2	
34	1	1	...	...	
35	1	...	1	...	
36	...	1	...	1	
37	4	...	4	...	
38	...	4	...	4	
39	1	...	...	...	
40	...	1	...	...	
41	1	...	1	...	
42	...	1	...	2	
43	2	...	...	...	
44	...	2	...	...	
45	1	...	...	...	
46	...	1	...	...	
47	...	1	...	...	
48	1	...	...	...	

---

state length required.

Appendix X

Component and Spare Parts of Hydraulic Gear, for B.L. 12-inch

Designation.	Detail.	
GEAR, HYDRAULIC—*continued.*		
Loading derrick—continued.		
Valve chest—*continued.*		
Plugs, valve chest	Metal	1
	,, ...	2
Rod, slide valve	Phosphor bronze	3
	,, ,, ...	4
Seating, slide valve	Metal	5
	,, ...	6
Slide valve	Metal	7
	,, ...	8
Socket, lever, slide valve rod	Steel, with taper pin	9
	,, ,, ,, ...	10
Washers, packing	(1 gutta percha and 10 leather to a set) sets	11
	,, ,, ,, ,,	12
Traversing.		
Bands, clutch lower tier	Metal	13
	,, ...	14
upper tier...	,, ...	15
	,, ...	16
Clutch	Iron	17
	,, ...	18
Levers clutch lower tier	,, ...	19
upper tier bevelled ...	,, ...	20
cranked ...	,, ...	21
straight ...	,, ...	22
upper and lower tier, straight	,, ...	23
hand clutch ... -	,, ...	24
	,, ...	25
Pinions, clutch 27 teeth	Steel	26
26 ,, ...	,, ...	27
Shafts clutch lever lower tier ..	,, with collars and screws	28
	,, ,, ,, ,, ...	29
upper tier ...	,, ,, ,, ,, ...	30
	,, ,, ,, ,, ...	31
4th motion lower tier ...	Steel, with collars and screws	32
	,, ,, ,, ,, ...	33
upper tier ...	,, ,, ,, ,, ...	34
	,, ,, ,, ,, ...	35
Sleeve, guide chain	Metal	36
	,, ...	37
Wheels, spur 33 teeth	Steel	38
34 ,, ...	,, ...	39
Engine	... ...	40
	Parts of—	
Bearings crank ram	Metal	41
crank shaft	,, ...	42
	,, ...	43
Blocks, slide valve	,, ...	44
	,, ...	45
Bushes, valve-chest covers	,, for air valve	46
Caps bearings, crank shaft	Iron	47
	,, ...	48
ram	Metal	49
	,, ...	50
Connections, derrick pipe	,, ...	51
Covers ball joint...	,, with screws	52
valve chest	,, ...	53
	,, ...	54
connecting valve	,, ...	55

—*continued.*

Mountings, at No Man's Land and Horse Sand Forts—*continued.*

	B.L. 12-in.		Proportion of spare per fort.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	1	...	...	...	
2	...	1	...	...	
3	1	...	...	...	
4	...	1	...	...	
5	1	...	...	...	
6	...	1	...	...	
7	1	...	...	...	
8	...	1	...	...	
9	1	...	...	...	
10	...	1	...	...	
11	1	...	8	...	
12	...	1	...	10	
13	1	...	...	...	
14	...	1	...	...	
15	1	...	...	...	
16	...	1	...	...	
17	1	...	...	...	
18	...	1	...	...	
19	...	2	...	...	
20	1	...	...	...	
21	...	1	...	...	
22	...	1	...	...	
23	3	...	...	...	
24	1	...	...	...	
25	...	1	...	...	
26	1	...	...	...	
27	...	1	...	...	
28	1	...	...	...	
29	...	1	...	...	
30	1	...	...	...	
31	...	1	...	...	
32	1	...	...	...	
33	...	1	...	...	
34	1	...	...	...	
35	...	1	...	...	
36	1	...	...	...	
37	...	1	...	...	
38	1	...	...	...	
39	...	1	...	...	
40	1	...	1	...	
	...	1	...	1	
41	3	...	...	...	
42	2	...	...	...	
43	...	2	...	...	
44	3	...	...	...	
45	...	3	...	...	
46	...	3	...	...	
47	2	...	...	...	
48	...	2	...	...	
49	3	...	...	...	
50	...	3	...	...	
51	...	1	...	...	
52	3	...	...	...	
53	3	...	...	...	
54	...	3	...	...	
55	2	...	...	...	

Appendix X

Component and Spare Parts of Hydraulic Gear, for B.L. 12-inch

Designation.	Detail.	
GEAR, HYDRAULIC—*continued.*		
Traversing—continued.		
Engine—*continued.*		
Cylinders	Metal	1
	,,	2
Frames	Steel, with bolts and studs	3
	Metal, ,, ,, screws	4
Glands, ram	Metal	5
	,,	6
Pipes, copper	With flange, pressure, and exhaust, 1-in. bore, 1¼-in. dia., 1 length of 3-ft. 8-in. and one of 4-ft. 1-in.	7
Pipes, steel	With flange; pressure and exhaust, 1½-in. gas	8
Plugs, connecting valve	Metal	9
Rams	,,	10
	,,	11
Rings, ball joint	,, in 2 parts	12
	,, ,, ,,	13
Rings, securing packing, ball joint	,,	14
	,,	15
Rings, securing packing, ram	,,	16
	,,	17
Rings, packing, ball joint	Leather, U section	18
	,, ,, ,,	19
Rings, packing, ram	,, ,, ,,	20
	,, ,, ,,	21
Seatings, slide-valve	Metal	22
	,,	23
Shaft, crank	Steel	24
	,,	25
Slide-valves	Metal	26
	,,	27
Studs, actuating slide-valve	,,	28
	,,	29
Valve-chest	,,	30
Valves, air	Steel	31
Valves, air cylinders	Metal	32
Valves, air, valve-chest	Metal	33
Valves, air, ,, covers	,,	34
Valves, non-return to derrick, with springs	,,	35
Valves, non-return to derrick, without ,,	,,	36
Washers, packing	(3 gutta percha and 6 leather to a set) sets	37
	(3 ,, ,, ,, 8 ,, ,,) ,,	38
Rammer.		
Blocks, protecting lock	Wood, with hinges	39
Bolts, holding down valve base plate		40
Chain withdrawing	Iron for withdrawing breech screw	41
Connections, cylinder cap pipe, front	Metal (3 to a set) sets	42
Connections, cylinder cap pipe, rear	,, (2 ,, ,,) ,,	43
	,, (2 ,, ,,) ,,	44
Connections, exhaust pipe	,, (2 ,, ,,) ,,	45
	,, (2 ,, ,,) ,,	46
Connections, supply ,,	,, (2 ,, ,,) ,,	47
	,, (2 ,, ,,) ,,	48
Hooks, chain, withdrawing		49
Jib, supporting, rammer		50
Pins, joint jib	Steel, with split pin and collar	51
Pins, sheave	,, ,, ,, ,,	52
Pins, pivot, valve lever	,, ,, ,, ,,	53

—continued.

Mountings at No Man's Land and Horse Sand Forts—*continued.*

	B.L. 12-in.		Proportion of spare per foot.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	3	...	...	...	
2	...	3	...	...	
3	...	1	...	...	
4	1	...	...	...	
5	3	...	...	...	
6	...	3	...	...	
7	...	2	...	4	
8	2	...	...	...	
9	...	2	...	...	
10	3	...	...	...	
11	...	3	...	...	
12	3	...	...	...	
13	...	3	...	...	
14	3	...	...	...	
15	...	3	...	...	
16	3	...	...	...	
17	...	3	...	...	
18	3	...	24	...	
19	...	3	...	30	
20	3	...	24	...	
21	...	3	...	30	
22	3	...	...	...	
23	...	3	...	...	
24	1	...	...	...	
25	...	1	...	...	
26	3	...	6	..	
27	...	3	...	6	
28	3	...	...	...	
29	...	3	...	...	
30	...	1	...	...	
31	...	3	...	...	
32	3	...	...	...	
33	1	...	...	...	
34	3	...	...	...	
35	2	...	2	...	
36	...	2	...	2	
37	1	...	8	...	
38	...	1	...	10	
39	1	1	8	10	
40	4	4	...	...	
41	2	2	4	5	
42	2	2	2	2	
43	2	...	2	...	
44	...	2	...	2	
45	2	...	2	...	
46	...	2	...	2	
47	2	...	2	...	
48	...	2	...	2	
49	1	1	4	5	
50	2	2	...	...	
51	2	2	...	...	
52	2	2	1	2	
53	2	2	...	...	

Appendix X.

Component and Spare Parts of Hydraulic Gear, for B.L. 12-inch

Designation	Detail.	
GEAR, HYDRAULIC—*continued.* *Rammer*—continued.		
Pipes, copper, cylinder cap, front	$\frac{3}{8}$-in. bore, $\frac{9}{16}$-in. dia. (length of *) lengths	1
Pipes, copper, cylinder cap, rear	,, ,, ,, (,, ,, *) ,,	2
Pipes, copper, cylinder cap, exhaust	,, ,, ,, (,, ,, *) ,,	3
Pipes, copper, rammer, supply	,, ,, ,, (,, ,, *) ,,	4
Pipes, copper, rammer, exhaust	$\frac{1}{2}$,, $\frac{3}{4}$,, (,, ,, *) ,,	5
Pipes, iron, cylinder cap, rear	$\frac{1}{2}$-in. bore	6
	$\frac{3}{4}$,, ,,	7
Plates, base valve	Cast-iron	8
Rammers, right hand	(Without head and lining for masonry)	9
Rammers, left ,,	With cylinder, rammer, joint, and length to take head	10
Head, rammer	With toggle joint	11
Rings, packing, L section	Leather	12
Stud piston joint	Metal, with ring and nuts	13
Valve, washing-out	Metal	14
Bolts, locking rammer joint		15
Caps, cylinder, front	Metal	16
Caps, cylinder, rear	,,	17
	,, with screw, washer, and pad	18
Casing	Cast-iron, in two pieces, with angle, screws, and studs	19
Cylinder	Steel	20
Glands, cylinder	Metal	21
Glands, washing-out valve	,,	22
Pins, joint rammer	Steel, with split pin and collar	23
Plugs, cover, washing-out valve	Metal	24
Rings, rammer joint	India-rubber	25
Rings, securing packing		26
Rings, packing, U section	Leather	27
Tubes, rammer, front	Iron, with nut, metal, joint and wood core	28
Tubes, rammer, rear	Steel, with metal joint	29
Wheel, hand, washing-out valve	Metal with taper pin	30
Shackles, jib	Iron	31
Sheave, chain withdrawing	Cast-iron	32
Stop, valve lever	Steel, jointed	33
Valve-chest	Metal, with slide-valve, rod, and socket	34
	Parts of—	
Glands, slide rod	Metal	35
Lever, hand, slide valve	Iron	36
Pins, socket, slide rod	Steel, with collar and key	37
Plugs, cover	Metal	38
Rod, slide valve	,,	39
Seating, slide valve	,,	40
Slide valve	,,	41
Socket slide rod	Steel, with taper pin	42
Washers, packing	(1 gutta percha and 23 leather to a set) sets	43
	,, ,, ,, ,,	44
Packing, rope, cotton, white 1¼-in.	(length of*) lengths	45
Pipe swivels—		
Arm, carrying pivot block	Steel, with metal bearing plate, and screws	46
Blocks, pivot, fixed	With collars and nuts, tube nozzle, and 4 studs with collar and nut	47
Blocks, pivot, movable	With collars and nuts, tube nozzle, 2 fixing screws and 2 studs, with collars and nuts	48
Bolt, joint, pivot block arm	Iron, with nut and taper pin	49
Bushes, flanged	Metal	50
Bushes, plain	,,	51
Cranks, pivot block arm	Iron, with axis screw and taper pin	52

(* Demands to state

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—*continued.*

Mountings, at No Man's Land and Horse Sand Forts—*continued.*

	B.L. 12-in.		Proportion of spare per fort.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	2	2	...	...	
2	2	2	...	...	
3	2	...	...	...	
4	2	2	2	4	
5	...	2	...	4	
6	2	...	...	...	
7	...	2	...	...	
8	2	2	...	...	
9	1	1	1	2	
10	1	1	1	2	
11	2	2	2	2	
12	4	4	32	80	
13	2	2	2	2	
14	2	2	2	2	
15	2	2	...	...	
16	2	2	...	...	
17	...	2	...	...	
18	2	...	...	...	
19	2	2	...	...	
20	2	2	...	...	
21	2	2	...	...	
22	2	2	...	...	
23	2	2	...	...	
24	2	2	...	...	
25	2	2	...	...	
26	2	...	...	...	
27	2	...	16	...	
28	2	2	...	...	
29	2	2	...	...	
30	2	2	...	...	
31	2	2	...	...	
32	2	2	1	2	
33	2	2	...	...	
34	2	2	1	2	
35	4	4	...	...	
36	2	2	...	...	
37	2	2	...	...	
38	2	2	...	...	
39	2	2	...	...	
40	2	2	...	...	
41	2	2	...	...	
42	2	2	...	...	
43	1	...	8	...	
44	...	1	...	20	
45	...	...	...	...	
46	1	1	...	...	
47	1	1	...	...	
48	1	1	...	...	
49	1	1	...	...	
50	4	4	...	...	
51	4	4	...	...	
52	2	2	...	...	

length required.)

Appendix X

Component and Spare Parts of Hydraulic Gear, for B.L. 12-inch

Designation.	Detail.	
GEAR, HYDRAULIC—*continued.*		
Pipe Swivels—continued.		
Glands, pipe swivels { large	Metal	1
small	,, ...	2
Pipes, telescopic { large	Steel, 1⅝-in. dia., with 1 swivel	3
small	,, 1-in ,, ,, ,, ...	4
Rings { packing pipe swivels { pivot block ...	Leather, U section	5
glands { lower ...	,, ,, ,, ...	6
upper ...	,, ,, ,, ...	7
securing 4 leathers { large ...	Metal	8
small ...	,, ...	9
Swivels, fixed pivot block { lower ...	Metal, with glands and rings, securing U leather	10
upper ...	,, ,, ,, ,,	11
Pipes—	Copper, with fittings—	
Connecting steel pipes to false pivot...	⅝-in. bore, ⅞-in. dia. (length of 4ft.) lengths	12
Connecting swivel joints { to steel pipes { derrick exhaust	⅜ ,, ,, $\frac{9}{16}$,, ,, 2 ,, ,,	13
elevating engine	⅝ ,, ,, ⅞ ,, ,, 3 ,, ,,	14
traversing ,,	1 ,, ,, 1¼ ,, ,, 4 ,, ,,	15
to copper pipes { derrick exhaust	⅜ ,, ,, $\frac{9}{16}$,, ,, * ,, ,,	16
elevating engine	⅝ ,, ,, ⅞ ,, ,, * ,, ,,	17
traversing ,,	1 ,, ,, 1¼ ,, ,, * ,, ,,	18
Intermediate { derrick exhaust ...	⅜ ,, ,, $\frac{9}{16}$,, ,, * ,, ,,	19
elevating engine ..	⅝ ,, ,, ⅞ ,, ,, * ,, ,,	20
traversing ,, ...	1 ,, ,, 1¼ ,, ,, * ,, ,,	21
	Steel—	
Connecting controlling valve to false pivot { elevating engine ...	1½-in. bore, 1⅞-in. dia. (length of 10ft.) ,,	22
traversing ,, ...	¾ ,, ,, 1 ,, ,, ,, 10 ,, ,,	23
derrick exhaust ...	½ ,, ,, ¾ ,, ,, ,, 10 ,, ,,	24
Studs, steadying pivot, block arm ...	Steel	25
Tube, exhaust...	Indiarubber wired, ½-in., 33-in., with couplings	26
Washers, packing	Leather (set of 19) ... ... sets	27
Valve, controlling—		
Gear, actuating.		
Bolts { holding down	Iron, with nut (for base plate)	28
stay quadrant guide ...	,, ,, collars and nuts	29
Levers, hand { elevating	Steel, with spring, catch, lever, and pawl	30
	,, ,, ,, ,, ,, ,, ,,	31
traversing	Steel, with spring, catch, lever and pawl	32
	,, ,, ,, ,, ,, ,, ,,	33
Links, crank	,, ...	34
Plates { base	With plummer blocks...	35
	,, ,, ,, ...	36
direction { elevating ...	Metal, with screws	37
traversing ...	,, ,, ,, ...	38
supporting quadrant guide	With bolts and nuts	39
Quadrants, guide, hand lever ...	Iron, in 2 parts	40
Shafts, crank	Steel, with collars and pins	41
Spring, catch lever	,, spiral	42
Valve, chest	Metal, with slide valves, rods, and sockets	43
Casing { relief valve	Metal, in 2 parts	44
	,, with plug	45
slide valve	,, in 2 parts	46
	,, with plug	47

* Demands to state

—*continued.*

Mountings, at No Man's Land and Horse Sand Forts—*continued.*

	B.L. 12-in.		Proportion of spare per fort.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	...	...	8	10	
2	...	...	8	10	
3	2	2	8	10	
4	2	2	8	10	
5	16	16	64	160	
6	2	2	8	20	
7	2	2	8	20	
8	...	...	8	10	
9	...	...	8	10	
10	2	2	...	...	
11	2	2	...	...	
12	2	...	4	...	
13	1	1	4	5	
14	2	2	4	4	
15	2	2	4	4	
16	1	1	4	4	
17	2	2	4	4	
18	2	2	2	2	
19	1	1	2	2	
20	2	2	4	4	
21	2	2	4	4	
22	...	...	5	...	
23	...	...	5	...	
24	...	...	5	...	
25	2	2	8	10	
26	1	1	4	5	
27	1	1	4	5	
28	4	4	...	...	
29	2	2	...	...	
30	1	...	...	...	
31	...	1	...	...	
32	1	...	...	...	
33	...	1	...	...	
34	2	2	...	...	
35	1	...	...	...	
36	...	1	...	...	
37	1	1	...	...	
38	1	1	...	...	
39	2	2	...	...	
40	2	2	...	...	
41	2	2	...	...	
42	2	2	2	2	
43	1	...	1	...	
	...	1	...	1	
44	...	1	...	...	
45	1	...	...	...	
46	...	1	...	...	
47	1	...	...	...	

length required.

Appendix X

Component and Spare Parts of Hydraulic Gear, for B.L. 12-inch

Designation.	Detail.	
GEAR, HYDRAULIC—*continued.*		
Valve, controlling—*continued.*		
Valve chest—*continued.*		
Glands, slide rod	Metal	1
	,,	2
Pins, socket, slide rod	Steel, with collar and split key	3
	,, ,, ,, ,, ,, ,,	4
Pipe, overflow	Copper, with unions	5
Rods, slide valve	Phosphor bronze, with nut	6
	,, ,, ,, ,,	7
Seating, slide valve	Metal	8
	,,	9
Socket, slide rod	,,	10
	,,	11
Springs, relief valve	Steel, spiral	12
	,, ,,	13
Valve, relief	Metal	14
	,,	15
Slide valves, elevating	,,	16
	,,	17
Slide valves, traversing	,,	18
	,,	19
Washers, packing	(1 gutta-percha and 7 leather to a set) sets	20
	(1 ,, ,, 9 ,, ,,) ,,	21

—*continued.*

Mountings, at No Man's Land and Horse Sand Forts—*continued.*

	B.L. 12-in.		Proportion of spare per fort.		Remarks.
	Mark I*a*. No Man's Land Fort.	Mark I*b*. Horse Sand Fort.	Mark I*a*.	Mark I*b*.	
1	4	...	...	...	
2	...	4	...	...	
3	2	...	...	...	
4	...	2	...	...	
5	...	1	...	...	
6	2	...	...	...	
7	...	2	...	...	
8	1	...	...	...	
9	...	1	...	...	
10	2	...	...	...	
11	...	2	...	...	
12	1	...	...	...	
13	...	1	...	...	
14	1	...	...	...	
15	...	1	...	...	
16	1	...	...	...	
17	...	1	...	...	
18	1	...	...	...	
19	...	1	...	...	
20	1	...	8	...	
21	...	1	...	10	

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Ports.
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Appendix X—*continued.*

Consumable Stores for Hydraulic Gear and Electric Light Plant, Horse Sand, and No Man's Land Forts.

Stores.	Annual Allowance.	Remarks.
FOR HYDRAULIC GEAR, 12-IN. B.L. GUNS AND LIFTS.		
Woolwich Section No. 10.		
Asbestos, millboard, ⅛-in. thick ... lb.	14	
Gutta percha round ¼-in. dia. ... ,,	5	
⅜ ,, ,, ... ,,	5	
sheet, ¼-in. dia. ... ,,	5	
Packing, asbestos, round ⅜-in. thick ,,	7	
½ ,, ,, ,,	6	
¾ ,, ,, ,,	7	
1 ,, ,, ,,	7	
Woolwich Section, No. 11.		
Glycerine	As required	For mixing with liquid in tank to prevent freezing.
Lead, Black dry ... ... lb.	12	
Paint, lead red, dry ... ... ,,	14	
white, ground... ... ,,	14	
7350/491 Oil lard ... ...galls.	30	
Rangoon... ... ... ,,	10	
red cylinder ... ... ,,	12	
Soap, soft ... ... cwt.	2	For general use.
... ... ,,	As required	For mixing with liquid in tank to prevent freezing.
Tallow, Russian ... ... lb.	50	
Woolwich Section, No. 14.		
Leather, anhydrous ... ... lb.	28	
Leathers, for engines and joints, spare sets	8	
Tube, flexible, spare, 3 sizes ... ,,	4	
Woolwich Section, No. 27.		
Cotton, waste, white ... ... cwt.	1½	
Not in Vocabulary.		
Rope, cotton, packing ¾-in. dia.... lb.	20	
1 ,, ,, ... ,,	20	
1½-in. ... ,,	20	
FOR ELECTRIC LIGHT PLANT.		
Woolwich Section, No. 10.		
Asbestos, millboard, ⅛-in. thick ... lb.	7	
Packing, asbestos, round ½-in. ... ,,	4	
⅝ ,, ... ,,	6	
Woolwich Section, No. 11.		
Oil lard ... ...galls.	12	
Rangoon... ... ... ,,	10	
red cylinder ... ... ,,	10	
Woolwich Section, No. 27.		
Cotton, waste, white ... ... lb.	56	

Appendix X—*continued.*

Consumable Stores for Hydraulic Gear and Electric Light Plant, Horse Sand, and No Mans's Land Forts—*continued.*

Stores.	Annual Allowance.	Remarks.
FOR DONKEY ENGINE AND PUMP.		
Woolwich Section No. 11.		
Oil, lard ... ...galls.	6	
Woolwich Section No. 27.		
Cotton, waste, white ... ... lb.	14	
FOR ALL BOILERS.		
Woolwich Section, No. 9.		
Zinc, slabs, 9-in. × 6-in. × ¾-in.	2	
Woolwich Section No. 11.		
Coal { anthracite ... ... tons	94	
Coal { house ... ... ,,	46	

Special Tools and Stores for Maintenance of 12-in. B.L Hydraulic Gear at Horse Sand and No Man's Land Forts.

Description.	Amount.		Remarks.	
	No Man's.	Horse Sand.		
Woolwich Section No. 7.				
Chests, stocks and dies, gas, filled (Mark II)	1	1		57 Portsmouth 3185
Pipe cutter*	1	1		
Tongs, gas fitters' (½-in., ¾-in., 1-in., 1¼-in., 1½-in. and 2-in.) ... sets	1	1		
Tube expander*	1	...		
Woolwich Section No. 9.				
Copper, sheet, $\frac{1}{10}$-in. thick ...sq. ft.	6	6		
Woolwich Section No. 10.				
Brushes, tube, boiler, hair { 2¼-in. dia.	4	4		
Brushes, tube, boiler, hair { 2-in. ,,	2	2		
Glasses, gauge, 12-in. × ⅝-in.	24	24		
Rings, I.R., ⅝-in. gauge glass	24	24		
Not in Vocabulary.				
Iron, wrought, Bars, fire { Cochrane boilers* sets	2	...		1 4318
locomotive boilers*...	1	...		
,, ,, No. 307 †	...	1		
locomotive type, No. 228 §	...	1		
Glasses, gauge (Cochrane boiler), 11½-in. × ¾-in.	24	24		
Rings, I.R., Cochrane boiler, 4 to a set	96	96		
Shovels, stoking*...	2	2		
Spanners, lug, for flexible tube... set	1	1		

* Size to be stated when demanding.

† By Robey & Co. § By John Fowler.

Appendix X—*continued.*

Spare Parts.

Description.	Horse Sand Fort.	No Man's Land Fort.	Remarks.
Not in Vocabulary.			
Engine, main—			
Brasses, crank ... ... set	1	1	
Glands, various sizes* ... ... sets	2	2	
Rings, piston*	6	6	
Straps, eccentric, and bolts	1	1	

Consumable Stores for Hydraulic Gear, Nothe and Breakwater Forts.

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Stores.	Annual Allowance.		Remarks.
	Nothe.	Break-water.	
Woolwich Section, No. 7.			
Cloth, emery, coarse ... quires	2	4	
Cloth, emery, middling ,,	2	2	
Powder, emery, flour ... ... lb.	1	4	
Woolwich Section, No. 10.			
Asbestos, millboard, ⅛-in. thick lb.	...	28	For jointing steam pipes.
Gutta percha, round, ½-in. dia. ,,	...	6	
Gutta percha, round, ⅜ ,, ,, ,,	...	6	
Gutta percha, round, ¼ ,, ,, ,,	...	6	
India-rubber, ¼-in. dia,, with lead core... ... ... lb.	...	7	Steam jointing.
Packing asbestos, round, ⅝-in. dia. ... lb.	...	26	For blow off cocks, &c.
Packing asbestos, round, ½ ,, ,, ... ,,	...	14	,, ,, ,,
Packing asbestos, round, ⅜ ,, ,, ... ,,	...	14	For jet cocks.
Woolwich Section, No. 11.			
Lead, black, dry ... ... lb.	14	28	For lubricating chains.
Oil, lard ... ... galls.	...	25	
Oil, lubricating, for cylinders of gas and oil engines ... galls.	...	10	For oil-engine, driving pump for hydraulic lift, 4 H.P. nominal.
Oil, paraffin, light ... ... ,,	...	10	For removing clogged grease.
Oil, red cylinder ... ... ,,	...	25	
Paint, lead, red, dry ... ... lb.	14	56	For jointing cylinder covers, &c.
Paint, lead, white, ground ... ,,	14	28	
Soap, soft ... ... cwt.	½	2	For hydraulic lifts.
Soda, caustic ... ... lb.	...	7	Removing grease from lifts.
Soda, crystals ... ... cwt.	¼	1½	For boilers and hydraulic lifts.
Tallow, Russian ... ... lb.	28	112	For lubricating chains, &c.

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* Size to be stated when demanding.

Appendix X—*continued.*

Consumable Stores for Hydraulic Gear, Nothe and Breakwater Forts—*continued.*

Stores.	Annual Allowance.		Remarks.
	Nothe.	Break-water.	
Woolwich Section, No. 14.			
Leather, anhydrous ... ... lb.	14	56	For small joints.
Packing, hydraulic 1¼-in. dia. ,,	...	28	For accumulator.
Packing, hydraulic ⅞ ,, ,, ,,	...	28	For shell lifts.
Packing, hydraulic ¾ ,, ,, ,,	10*	20**	* For pump and muzzle lifts. ** For cartridge lifts.
Packing, hydraulic ⅝ ,, ,, ,,	5	20	For pumps and magazine lifts.
Woolwich Section, No. 18.			
Cloths, sponge ... ... doz.	6	12	
Woolwich Section, No. 25.			
Cotton, waste, white	56	112	For cleaning purposes.
Not in Vocabulary.			
Oil, petroleum, Roy. Daylight galls.	50	...	Establishment to be replaced as required. For oil engine, driving pump for hydraulic lift.

Tools and Stores for maintenance of 12·5-in. R.M.L. Hydraulic Gear at Nothe and Breakwater Forts.

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Weymouth
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Description.	Amount.		Remarks.
	Nothe.	Break-water.	
Woolwich Section, No. 7.			
Chests, stocks and dies, gas, filled, Mark II	1	1	
Chests, tool, filled 3 D	...	1	
Chests, tool, filled 4 C	1	1	
Pipe, cutter*	1	1	
Tongs, gas fitter's (½-in., ¾-in., 1-in., 1¼-in., 1½-in. and 2-in.) ... sets	1	1	
Tube expander*	...	1	For putting in new tubes.
Woolwich Section, No. 9.			
Iron, wrought, bars, fire, 3-in. deep lb.	...	1860	
Zinc slabs, 24-in. × 6-in. × ½-in.	...	4	2 to each boiler.
Woolwich Section, No. 10.			
Brushes, tube boiler, hair, 1½-in. dia.	...	4	
Glasses, gauge, 12-in. × ⅝-in.	...	12	
Plugs, fusible, for boilers ... sets	...	2	
Rings, I.R., ⅝-in. gauge glass	...	48	4 to each glass.
Not in Vocabulary.			
Shovels, stoking, No. 5 blade	...	2	

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* Size to be stated when demanding.

Appendix X—*continued.*

Spare Parts.

Description.	Amount.		Remarks.
	Nothe.	Break-water.	
Woolwich Section, No. 14.			
Lifts, muzzle, hydraulic, R.M.L., 12·5-in.—			
Pipes, copper ... ... sets	2	2	
Springs, valve, spiral ... ,,	7	7	1 per lift.
Valves, metal (2 per set) ... ,,	1	1	
Not in Vocabulary.			
Engine, twin cylinder inverted non-condensing, 12-in. dia., 16-in. stroke. Pistons dished with three rings to each—			
Brasses, complete ... ... set	...	1	
Pins, steel, for link motion ...	...	4	
Rings, piston, 12-in....	...	6	
Straps, eccentric, and bolts ...	...	4	
Fan, steam—			
Brasses, complete ... ... set	...	1	
Rings, piston, 12-in.	...	3	

APPENDIX XI.

STORES FOR USE WITH ENGINES, &c., AT BREAKWATER FORT, PLYMOUTH.

(*Referred to in Paragraph* 63.)

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Description.	Amount.	Remarks.
SPARE STORES FOR REPAIR (To be maintained).		
Woolwich Section, No 10.		
Packing tucks ¾-in. ... lb.	8	
Packing tucks ⅜-in. ... ,,	3	
Packing tucks ¼-in. ... ,,	3	
Woolwich Section, No. 18.		
Cordage, spun, yarn, hemp, 3 thread ... lb.	28	
Not in Vocabulary.		
Brushes, tube, 2¼-in. diameter ...	6	
Fire bars for boilers ... sets	1	
Glasses gauge, water for boiler, 11″ × ¾″ ...	6	
Gutta percha, round, ⅜-in. diameter ... lb.	4	
Rope, cotton, white, for packing ... ,,	14	
Rubber rings for gauge glasses ...	12	
BARRACK STORES.		
Woolwich Section, No. 25.		
Brooms, bass, common ...	1	
Brushes, paint, ground 000 ...	1	
Brushes, paint, sash tool, No. 6 ...	1	
Brushes, sweeping hand ...	1	
Brushes, whitewash, 6 oz. ...	2	
Woolwich Section, No. 26.		
Shovel, coal, square ...	1	
CONSUMABLE STORES.		
Woolwich Section, No. 7.		
Cloth, emery, fine ... sheets	24	
Cloth, emery, middling ... ,,	24	
Woolwich Section, No. 11.		
Bricks, bath ...	12	
Chalk, white ... lb.	2	
Oil, compound engine ... galls.	10	
Oil, linseed, boiled ... ,,	3	
Oil, linseed, raw ... ,,	6	
Oil, mineral ... ,,	14	
Oil, rangoon ... ,,	20	
Paint, black, lamp ... lb.	12	
Paint, lead, red ... ,,	7	
Paint, lead, white ... ,,	20	
Soap, soft ... ,,	56	
Soda, crystal ... ,,	56	
Tallow, Russian ... ,,	14	
Turpentine ... galls.	6	
Woolwich Section, No. 18.		
Cloths, sponge ... doz.	6	
Woolwich Section, No. 25.		
Cotton waste, coloured ... lb.	112	

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II.—DETAILS OF EQUIPMENT.

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1.—ARMAMENTS.

Referred to in Paragraph 25.

EQUIPMENT OF B.L. 12-IN., 10-IN., 9·2-IN., AND 8-IN. GUNS.

TABLE 1.	Proportions.	Remarks.
Woolwich Section, No. 2.		
Bags, sand, common*	1 per gun on disappearing carriage.	To place in front of muzzle of gun when firing electric tubes, to dry the vent before commencing practice (*see* Paragraph 154).
Bars, crow, 6-feet	1 per work	For general use.
Lamps, tracing†	2 per gun...	For night firing.
Woolwich Section, No. 4.		
Boxes, grease, 3lb	1 per gun	For general purposes.
Carts, shot	1 per sub-district ...	For moving projectiles.
Drugs, gun, 25 tons	1 per district	For 9·2-inch and 8-inch.
Woolwich Section, No. 5.		
Brushes, water, carriage	2 per gun...	For cleaning projectiles, &c.
Woolwich Section, No. 7.		
Chests, tool, filled, No. 3 D	As authorised by paragraph 182.	For repair of carriages and slides.
Chests, tool, filled, ,, 11 E	1 per work.	For repair of carriages and slides.
Boards, range, fuze scale	1 for every 2 guns of same nature, or where mounted singly 1 per gun.	To be provided locally.‡
Cans, oil, lubricating, G.S.§... ...	1 per gun...	For use of armament artificers.
Drivers, screw, G.S., 24-inch ...	1 ,, ...	For general use.
Hammers, claw, 28-oz.	2 per battery	For general use.
Mallets, tinman's	1 per gun...	For removing rope grummets from projectiles having driving bands with gas check.
Spanners, armament artificers, double-ended, ¾-in. and ⅝-in.	1 per 2 guns, 9·2-inch to 12-inch	For tightening up bolts of shellholders.
Spanners, armament artificers, double-ended, 1½ ,, 1⅜ ,, 1¼ ,, 1⅛ ,, 1 ,, ⅞ ,, ¾ ,, ⅝ ,, ½ ,, ⅜ ,,	1 set per work ...	For adjusting and tightening up bolts and nuts.
Spanners, McMahon, 15-inch ...	1 per gun...	For tightening nuts, &c.
Wrenches, knock up, G.S.	1 per work	For general purposes.

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* To be filled locally with sand or earth.

† Oil and wick for these are supplied by Army Service Corps, as required.

‡ The fuze scale is either painted on the board, or printed on paper and attached to the board.

§ When these cans become unserviceable they will be replaced by "Can, lubricating, No. 9."

NOTE.—As regards the proportion "per district" or "per sub district" throughout the tables, *see* Paras. 36 to 42.

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued.*

TABLE 1—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 10.		
Filters, hydraulic jack	1 per work	For filling jacks, &c.
Frames, store, hydraulic jack ...	1 per work or per 4 jacks	For keeping jacks under pressure
Jacks, lifting, hydraulic, G.S. 30 tons	10 in. and above 1 per work	For General Purposes.
Jacks, lifting, hydraulic, G.S. 20 ,,	8-in. and 9·2-in. 1 per work unless 30 ton jack is provided as above	
Pad, frame, store hydraulic jack ...	1 per hydraulic lifting jack	
Woolwich Section No. 11.		
Chalk, white ... ... lb.	2 per gun	Annual supply.
Glycerine ... ... ,,	1 per gauge, pressure dead weight testing 65 per barbette mounting, 9·2-inch, Mark II, and 10-inch, Marks II and III	For lubricating gauge. For hydraulic pivots
Methylated spirits ... galls.	As required	For H.P. cylinders.
Oil, mineral ... ... ,,	As required	For hydraulic buffers or H.P. cylinders.
Soda, carbonate, dry ... ... lb.	As required	For H.P. cylinders.
Solution, caustic soda, 1 pint bottles	As required	For reservoirs, compressed air.
Woolwich Section, No. 14		
Bands, elevating, removable ...	1 per gun...	For guns with removable elevating bands.*
(a) 57/24/1839 (b) 57/Gib./6525 **Barrows,** projectile No. 5† (a)...	1 per 10-inch and 1 per 9·2-inch	For service at the guns.
	1 per 10-inch.	For service between the shell store and shell lift, where required.
Barrows, projectile ,, 6 (b) ...	1 per 12-inch and 1 per 9·2-inch (wire) gun‡	For service at the gun.
	1 per 12-inch and 1 per 9.2 inch (wire) gun‡	For service between the shell store and shell lift, where required.
Barrows, projectile ,, 11† (a)	1 per 8-inch	For service at the gun.
	1 per 8-inch and 1 per 9·2 inch	For service between the shell store and shell lift, where required.
Buckets, sponge, garrison	1 per gun	For general use.
Carriages, garrison: B.L. 12-inch B.L. Barbette (10 inch, 9·2-inch, and 8-inch) B.L. disappearing (10-inch and 9·2-inch§)	1 per gun according to description of mounting approved.	For component and spare parts, *see* pages 376 to 431.

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* Elevating bands for the earlier issues of B.L. guns are fixtures, and as such are a component of the gun, and not accounted for as a separate store. Bands issued separately from the gun, should, when placed in position, be secured as directed in paragraph 6338, "List of Changes in War Matériel."

† Either No. 5 or No. 11 barrow may be used with the 9·2-inch, for service at the gun.

‡ For guns provided with hydraulic lifts.

§ For ingredients of liquid, *see* Regulations for Magazines, etc., and for quantities, *see* Treatise on Military Carriages.

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued.*

TABLE 1—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 14—continued.			
Connections, indicator, pressure ...	1 per disappearing carriage.	For connecting indicator to recoil cylinder.	
Covers, carriage, garrison, disappearing, and gun, B.L.	1 per 10-in. and 9·2-in. gun on disappearing carriage.		
Covers, gear, firing, electric, No. 1	1 per 10 inch, Marks I and II, and 9·2-inch, on disappearing carriages. 1 per 10-inch, Mark I, and 9·2-inch, Marks I, IA, and IB on barbette mountings.		
Gauges, pressure, dead weight testing, Mark II.	1 per sub-district ...	For disappearing carriages only.	
Gyns, triangle, with appurtenances, heavy, tubular, Mark II.*	1 per sub-district, or 2 if more than 3 works	For mounting and dismounting ordnance.	
Handspikes, common, 7 ft. ...	2 per gun...	Not to exceed 12 per work.	
Indicators, pressure, spring, Mark II.	1 per disappearing carriage.		
Levers, carrying projectile‡ ...	1 per gun...	For 8-inch Mark VII guns.	38407 Equip. 1747
Levers, steel-shod, 5 feet	2 ,,		
Measures, hydraulic buffer, filling	1 per work	For filling cylinders of disappearing carriages and hydraulic buffers	57 Portsmouth 4789
Pockets, gun layer	1 per gun.		
Pumps, air, double, carriage, garrison, H.P.§¶	1 per work of 3 or less disappearing carriages. 2 per work of more than 3 disappearing carriages.		
Rammers, packing asbestos ...	1 per work for 9·2-inch Mark II. and 10-inch Marks II. and III. barbette mountings	For packing hydraulic pivots.	71 1 5609
Reservoirs, compressed air, Mark II.‖	1 per disappearing carriage.		57 Malta 86
Rings, packing, asbestos, 10-inch diameter	1 per work for 9.2-inch Mark II. and 10-inch Mark II. barbette mountings	For packing hydraulic pivots,	71 1 5609
Rings, packing, asbestos, 12-inch diameter	1 per work for 10-inch Mark III. barbette mountings		

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* Complete with 1 gyn tackle, 1 erecting ditto (except for Mark II gyns), 4 windlass levers with ropes, 3 wood trucks, 3 slings of 9-inch rope (16, 7, and 3 feet long), and lashing for short slings. A gyn tackle consists of 18 fathoms of 5-inch white bolt (or hawser-laid) rope, with 2 treble 15-inch Bothway blocks. An erecting tackle consists of 7 fathoms of 2½-inch white rope, with 1 single 8-inch Admiralty block; it is employed to raise the gyn tackle to the head of the gyn. There are also required 1 8-inch lever, and 4 heavy drag ropes (these will be supplied from the equipment of the work in which the gyn is required).

‡ Will not be issued when present supply is exhausted.

§ For spare parts *see* list on page 577.

¶ As these pumps become unserviceable they will be replaced by the "Pump, air liquid."

‖ To be kept in Artillery Store when not in use.

38407
Equip.
1685

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued.*

	TABLE 1—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 14—continued.		
57 Gib. 6525	**Sabots,** barrows, projectile No. 1	1 per 12-in. projectile, except Palliser shot.	For No. 6 projectile barrow
	Sabots, barrows, projectile No. 2	1 per 12-inch Palliser shot and 9·2-inch projectile.*	
	Separators, air pump	1 per air pump	To separate the air from the water.
	Slides, L. B.L. 12-in. B.L. Barbette (10-in., 9·2-in. and 8-in.)	1 per gun according to description of mounting approved.	For component and spare parts, *see* pages 435 to 458.
	Spanners and special implements for mountings.	... ...	*See* Appendix IX, pages 168 to 182.
	Wrenches, pivot	... ...	
	Woolwich Section, No. 15.		
57 Gen. No. 175	**Barrows,** powder	1 per work¶	For moving powder or filled cartridges.
	Woolwich Section, No. 16.		
	Spikes, gun, common	2 per gun.	
	Tools, painting, and lacquering rifled ordnance, sets	1 per district	For detail of tools, *see* Table A, pages 54 and 55.
	Woolwich Section, No. 17.		
	Boxes, obturating pads	1 per gun	To contain 3 pads and 3 sets of discs. Not required for 8-inch Mark VII guns.
	Box, spare parts, B.L. 8-in. to 13·5-in. guns	1 per gun	For spare springs and other small spare parts of guns.
	Ordnance, B.L.	As authorised.	For components and spare parts, also special implements and appurtenances, *see* pages 340 to 359.
	Woolwich Section, No. 18.		
	Brushes, piasaba, B.L., bore	1 per 2 guns per work	For cleaning bores.
	Canvas, packing, Hessian, 47-in., yards	2½ per gun	Annual allowance. For use with piasaba brush for cleaning bores.
	Covers breech, B.L.	1 per gun.	
	Covers muzzle, B.L.	1 per gun, except for the 12-in. at Horse Sand and No Man's Land Forts.	
	Extractors, cartridge, B.L.	1 per 3 guns or 1 per work.	
	Keys, tampeon, B.L. large	1 per 2 guns or less number, 10-in. to 8-in.	For securing tampeon in gun.
	Rammers, B.L. (12-in. to 8-in.)	1 per gun.	
	Ropes, drag, heavy prs.	2 per work.	
	Scrapers, B.L., ordnance 6-in. to 13·5-in.	1 per gun	For cleaning powder chamber.
	Selvagees, projectile	2 per gun except 8-in	For slinging projectiles.
	Staves, end, B.L. 12-in. (Mark II) 10-in. and 9·2-in. (Mark II) 8-in. (Mark II)	1 per piasaba brush.	

57
Gib.
6525

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* For 9·2-inch (wire) guns provided with hydraulic lifts.

¶ Not required in any work in which all the cartridges are packed in cylinders.

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued.*

TABLE 1—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 18—cont.			
Staves, end, B.L., 12-in., tampeon "A" — No. 1	1 per tampeon for Marks I and IA guns.		
Staves, end, B.L., 12-in., tampeon "A" — No. 2	1 per tampeon, Marks VI and VII guns.		
Staves, tightening, B.L., 12-in., tampeon "A"	1 per 2 or less number of guns per work.		
Stores, for moving and mounting	Depend on mountings	For detail of stores, *see* Appendix I, pages 95 to 108.	
Tackles — gun, 3-in. white rope	2 per gun	If required.	
Tackles — slinging side arms* prs.	1 per 12-in. B.L. gun in casemate.	For slinging side arms from roof of casemate.	57 D'port. 6708
Tackles — shell room	1 per 2 guns, 9·2 in. to 12 in.	For use with shell holder.	
Tampeons, B.L., L.S. — 12-in.	1 per gun.	For the muzzle.	
Tampeons, B.L., L.S. — 10-in., A	1 per gun, except those mounted on Mark I disappearing carriages		
Tampeons, B.L., L.S. — 10-in., B	1 per gun, mounted on Mark I disappearing carrriage		
Tampeons, B.L., L.S. — 9·2-in., and 8-in.	1 per gun		
Woolwich Section, No. 20.			
Bearers, cartridge cylinder, Mark III†	2 per gun	For carrying cylinders.	
Cylinders, cartridge, B.L. (12-in. to 8-in.)	As required.		
Woolwich Section, No. 21.			
Cartridges, B.L., filled (12-in. to 8-in.)¶	4 powder (¼ charges)‡ or cordite cartridges 4 (¼ charges) per 12 in. B.L. and 2 (½ charges) per 10 in. to 8 in. B.L. per projectile.		57 N. Scotia 4593
Woolwich Section, No. 22.			
Batteries and Keys, test and firing	1 per gun	For use with electric tubes.	57 Dover 3833
Boxes, tube, vent-sealing, garrison	1 per gun	To be hung up in the emplacement as a receptacle for one tin box of five tubes.	
Fuzes, percussion§ — base, large, No. 11	1 per cast steel common pointed shell		57 Gen. No. 6590
Fuzes, percussion§ — direct action No. 3‖	1 per cast steel common shell, taking nose fuze		

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* Consisting of:—

Woolwich Section, No. 18.

Balls, tackle, slinging side arms	2	To be made up locally.
Blocks, loading tackle, No. 8	2	
Cordage, hawser, 3-strand, white, 1½-in.	10-ft.	
Eyes, tackle, slinging side arms	2	
Hooks ,, ,,	2	
Rings ,, ,,	4	

† These are only required when the cartridge stores are far from the guns.

‡ The present supply of ½ charges for the 8-in. Mark VII gun will first be used up.

§ The designation number is shown on the label of the cylinder or other package in which the fuze is packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

‖ Direct action fuzes will also be used with the old equipment of common iron shells for practice.

¶ The cordite cartridges will be gradually introduced under instructions from the War Office.

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued.*

	TABLE 1—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 22—contd.		
57 Gen. No. 6321	**Implements,** fuze shell, and cartridge—		
	Keys, fuze, universal	2 per gun...	The second key required for Mark III Direct Action fuze.
57 Portsmouth 4257	Keys, base fuze and plug ...	1 per gun, having projectiles with base fuzes and plugs.	
	Keys, plug, G.S.	1 per gun...	For removing plugs tightly fixed in shells.
	Lanyards cocking	1 ,, ...	For guns with percussion locks, except lock D.
	friction tube, No. 3 ...	3 ,, ...	For guns not on disappearing carriages.
	garrison ,, 5 ...	3 ,, ...	For 10-in. and 9·2-in. B.L. guns on disappearing carriages.
57 Malta 1190	**Primers,** vent, cordite	1 per V.S. tube without ball (*i.e.*, Mark IV) and 10 per cent. spare (for use with powder charges)	
57 Portsmouth 4789	**Straps,** tube box, long	1 per pocket gun layer.	
	Tubes, vent-sealing* electric, P	1 per round.	
	percussion	1 ,,	
	Woolwich Section, No. 24.		
57 D'port 6708	**Bars,** lifting, shell. 11·25 in. ...	1 per 2 guns, 9·2 in. to 12 in.	For use with shell holder. To be provided locally.
57 Gen. No. 7479	**Drivers,** grummet	1 per gun...	For removing rope grummets from projectiles having driving band with gas check. } To be provided locally.
57 Hong Kong 9878	**Gauges, shell ring,** B.L. band— 12-in. light, 10-in., 9·2-in., and 8-in. broad high ...	1 per work ... }	For shells having broad driving bands only.
57 24 2133	low ...	1 ,, ... }	
	gas check, high ...	1 ,, ...	For shells having driving band with gas check.
57 Gen. No. 6590	12-in. light, narrow high ...	1 ,, ... }	For shells having narrow driving bands only.‡
	low ...	1 ,, ... }	
	9.2-in. front, low	1 ,, ...	For shells having driving bands with gas check.
57 D'port 6708	B.L. body— 12-in., 10-in., 9.2 in., and 8-in. ...	1 ,, ...	
	Implements, fuze shell and cartridge holders, shell for laboratories 9·2 in. to 12 in.	1 per 2 guns	For fuzing shell with base fuzes
	Planks, stacking projectiles ...	1 per work	For rolling projectiles.
	Plugs, base shell, large	As required	
	fuze hole, G.S., without loop	,,	
	Protectors, armour-piercing projectiles, B.L.	1 per armour-piercing shot	To protect the point of the shot.
	Shell, B.L., filled§	... ...	} *See* end of table.
	Shot, B.L.	... ...	
	Woolwich Section, No. 25.		
	Brushes, flue, 5-ft. 6-in.	1 per work of 10 guns or less number of guns	For cleaning recoil cylinders of disappearing carriage.
	Lamps, fighting‖	2 per gun.	

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* After use the tubes will be returned to store and forwarded to Woolwich as old metal.

‡ The gauges for narrow bands are only required when 12-in. Mark I projectiles are on charge.

§ Supplied with fuze-hole plugs, which, however, are separately shown, and are to be separately charged and accounted for.

‖ Oil and wick for these are supplied by Army Service Corps as required.

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued.*

TABLE 1—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 25—contd.			
Measures, glass, 4-oz.	1 per work of only 1 disappearing carriage, or 2 per work of more than 1 disappearing carriage.	For measuring caustic soda solution.	
Woolwich Section, No. 27.			
Flags, musketry instruction, red, 4 ft. × 3 ft.	As required for use by sentries posted on flanks of battery during practice	In compliance with approved Bye-laws, *see* paragraph 74.	57 Portsmouth 3503
Flags, red, 12 ft. × 6 ft.	1 per practice battery ...	*See* paragraph 74.	
Woolwich Section, No. 28.			
Battery, Leclanche, 4-cell* ...	1 per lamp, electric telescope		57 Portsmouth 4182
Batteries, Epstein secondary, Ammeter, 0 to 30 ampéres ...	1 Per work. For Horse Sand and No Man's Land Forts	For working the P.F. double dial gear for the 12-in. B.L. guns.	
Board, switch, with resistance coils, and charging and discharging keys	1		
Cells (6 to a battery) ...	12		
Hydrometer (Keating's) ...	4		
Voltmeter, 0 to 30 volts ...	1		
Cable, electric, D†	Sufficient for 1 lead per gun	For firing guns electrically.	57 Dover 3319
Lamp, electric, telescope	1 per position-finder or depression range-finder where the electric search light is installed.		
Leads, flexible double strand, 2½ yds. (a)*	1 per lamp.		
Switch and resistance coil* ...	1 ,, ,,		
Wires, cotton covered, 6 yards*...	1 ,, ,,		
Position-finders depression ...	As authorised.	*See* paras. 76 to 83.	
Position-finders horizontal ...	As authorised.		
Woolwich Section, No. 29.			
Clinometers, large‡	1 per 3 guns, or 1 per work.	For giving quadrant elevation and measuring vertical angles.	
Hydro-clinometers	1 per gun on barbette carriage, except 9·2-in. and 10-in. on Mark I carriage with shield in rear of trunnions	*See* paragraphs 59 and 60.	57 H. Kong. 9532
Indicators, range	As authorised	For coast batteries.	
Range-finders, depression... ...	As authorised	*See* Appendix II, pages 110 to 123.	
Stands, telescope, 2½-in. socket ...	1 per work	For use with telescope.	
Tapes, measuring, 50 ft.	1 per sub-district ...	For measuring cordage, &c.	
Telescopes, 3 ft.	1 per work	For general use.	

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* These would not require to be exchanged in the event of a lamp being damaged.

† With garrison disappearing and barbette mountings, cable, electric D No. 9, will be used between plug box and firing key, and cable, electric, D No. 10, between firing key and gun. For other services D No. 10 cable will be used between plug box and gun.

‡ Stations having "Clinometer, Watkin," will retain them in use until they become unserviceable, when they will be replaced by the "Clinometer, large."

Equipment of B.L. 12-in., 10-in., 9·2-in., and 8-in. Guns—*continued*

57 / Gen. No. / 8886

The proportions of projectiles herein laid down will be maintained for the total number of guns of each nature in a district, but the number of each description of projectile for individual guns will be decided by the general officer commanding the district according to the relative importance of the position of such gun, and the purpose for which its fire would most probably be required in the event of an attack, provided that the total number as laid down in paragraph 44 is adhered to.

57 / Gen. No. / 6590

TABLE 1.—*continued.*

Projectiles.	B.L. guns, 8-inch to 12-inch.
Shells, B.L., common cast steel	90 per cent.
Shot, B.L., Armour-piercing	10 per cent.

NOTE.—The above proportions will be gradually introduced as existing stock of common iron shells and Palliser shot is used up for practice.

EQUIPMENT OF B.L. 6-INCH, 5-INCH, AND 4-INCH GUNS, FOR PERMANENT WORKS.

TABLE 2.	Proportions.	Remarks.
Woolwich Section, No. 2.		
Bags, sand, common*	1 per gun on disappearing carriage.	To place in front of muzzle of gun when firing electric tubes, to dry the vent before commencing practice (*see* para. 154).
Bars, crow, 6 feet	1 per work	For general use.
Lamps, tracing†	2 per 6-in. gun ... ... 1 per 5-in. and 4-in guns	For night firing.
Woolwich Section, No. 4.		
Boxes, grease ... ... 3 lb.	1 per 3 guns or less ...	For general purposes.
Carts, trench	1 per sub-district ...	For moving projectiles.
Drugs, gun, 5 ton	1 per district	For ordnance up to 5 tons.
Woolwich Section, No. 5.		
Brushes, water, carriage ...	2 per gun	For cleaning projectiles, &c.
Woolwich Section, No. 7.		
Chests, tool, filled, No. 3 D	As specially authorised. *See* paragraph 182.	For repair of carriages and slides.
Chests, tool, filled, No. 11 E	1 per work ...	For repair of carriages and slides.
Boards, range, fuze scale ...	1 per two guns of same mark, or where mounted singly, 1 per gun.	To be provided locally.‡

38407 / Equip. / 1747

57 / D'port. / 715

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* To be filled locally with sand or earth.

† Oil and wick for these are supplied by Army Service Corps, as required.

‡ The fuze scale is either painted on the board, or printed on paper and attached to the board.

Equipment of B.L. 6-in., 5-in., and 4-in. Guns, for Permanent Works—*continued.*

TABLE 2—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 7—continued.		
Cans, oil, lubricating, G.S.* ...	1 per gun	For use of armament artificers.
Drivers, screw, G.S., 24-inch ...	1 per gun	For general use.
Hammers, claw, 28 oz.	2 per battery	For general use.
Mallets, tinman's	1 per gun	For removing rope grummets from projectiles having driving band with gas check.
Spanners, armament artificers, double-ended: 1½ in. and 1⅜-in. 1¼ ,, ,, 1⅛ ,, 1 ,, ,, ⅞ ,, ¾ ,, ,, ⅝ ,, ½ ,, ,, ⅜ ,,	1 set per work...	For adjusting and tightening up bolts and nuts. For 6-inch guns only.
Spanners, McMahon, 15-inch...	1 per gun	For tightening nuts, &c.
Wrenches, knock up, G.S. ...	1 per work	For general purposes.
Woolwich Section, No. 10.		
Filters, hydraulic jack	1 per work	For filling jacks, &c.
Frames, store, hydraulic jack	1 per work or per 4 jacks.	For keeping jacks under pressure.
Jacks, lifting, hydraulic, G.S., 10 tons	1 per work, 6-inch only	For general purposes.
Jacks, lifting, screw, Clerk's	2 per work	For 4 and 5-inch B.L. guns.
Pad, frame, store hydraulic jack	1 per hydraulic lifting jack	
Plates, wheel, platform, siege, sets	1 per double-decked platform	
Woolwich Section, No. 11.		
Chalk, white ... ... lbs.	2 per gun	Annual supply.
Glycerine ... ... ,,	1 per gauge pressure dead weight testing.	For lubricating gauge.
Methylated spirits ...galls.	As required	For H. P. cylinders.
Oil, mineral ... ... ,,	As required	For H.P. cylinders and hydraulic buffers.
Soda, carbonate, dry ... lbs.	As required	For H.P. cylinders.
Solution, caustic soda, 1 pint bottles	As required	For reservoirs, air.
Woolwich Section, No. 14.		
Arms, radial, pivot, double-decked platform	1 per double-decked platform.	
Bands, elevating, removable ...	1 per gun	For guns with removable elevating bands.†
Boxes, limber, travelling, B.L. 5-inch and 4 inch	1 per limber.	
Buckets, sponge, garrison ...	1 per gun	For general use.

57
Gen. No.
7479

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* When these cans become unserviceable, they will be replaced by "Can, lubricating, No. 9."

† Elevating bands of the earlier issues of 6-inch B.L. guns are fixtures, and as such are a component of the gun and not accounted for as a separate store. Bands issued separately from the gun should, when placed in position, be secured as directed in para. 6338, "List of Changes in War Matériel."

Equipment of B.L. 6-in., 5 in., and 4-in. Guns, for Permanent Works—*continued.*

TABLE 2—*continued*	Proportions.	Remarks.
Woolwich Section, No. 14—continued.		
Carriages, garrison, B.L. barbette, 6-inch. garrison, B.L. disappearing, 6-inch, Marks I, II, III and IV.* garrison, B.L. Vavasseur central pivot 6-inch. travelling, B.L. 5-inch, 6-ft. parapet travelling, B.L. 4-inch, 6-ft. parapet	1 per gun according to description of mounting approved.	Marks I and III disappearing carriages for Mark V gun, and II and IV for Mark IV and VI guns. For component and spare parts *see* pages 376 to 434.
Connections, indicator pressure	1 per 6-inch disappearing carriage.	For connecting indicator to recoil cylinder.
Covers, carriage, garrison, disappearing, and gun, B.L.	1 per 6-inch gun on disappearing carriage.	
Covers, gear, firing, electric, No. 1 ...	1 per 6-inch gun on barbette carriage.	
Covers, gear, firing, electric, No. 2 ...	1 per 6-inch gun on disappearing carriage.	
Covers, rear traversing gear, shield, mounting, and breech of gun	1 per 6-inch gun on Mark II barbette carriage.	
Gauges, pressure, dead weight testing, Mark II.	1 per sub-district ...	For disappearing carriages only.
Gyns, triangle, with appurtenances, light, tubular Mark II.†	1 per sub-district, or 2 if more than 3 works.	For mounting and dismounting ordnance.
Handspikes, common, 7 feet	2 per 6-inch gun ...	Not to exceed 12 per work.
Handspikes, common, 6 feet	5 per 5-inch or 4-inch guns, on travelling carriage.	
Indicators, pressure, spring, Mark II.	1 per 6-inch disappearing carriage.	
Limbers, siege	1 per 2 5-inch and 4-inch B.L. guns.	
Measures, hydraulic buffer, filling	1 per work	For filling cylinders of disappearing carriages and hydraulic buffers.
Planks, trail, siege	1 per double-decked platform.	
Plates, pivot, double-decked platform	1 per double-decked platform	With under plates and bolts.
Platforms, siege, double-decked	1 per 5-inch and 4-inch B.L. gun.	
57 Portsmouth 4789 **Pockets**, gun layer	1 per gun, 6-inch, and 5-inch on fixed mounting.	
Pockets, extractor, tube P, B.L. 5-inch and 4-inch travelling, 6-ft parapet.‡	1 per 5-inch and 4-inch gun.	To hold "extractor tube P," and "rimer, vent, axial."

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* For ingredients of liquid, *see* Regulations for Magazines, &c., and for quantities thereof, *see* Treatise on Carriages.

† Complete with one gyn tackle, 4 levers (2 of which with ropes), 3 wood trucks and 2 slings of 7-inch white rope. The gyn tackle consists of 18 fathoms of 4-inch white bolt rope with 2 treble 12-inch Bothway blocks. There are also required 4, heavy drag ropes (these will be supplied from the equipment of the work in which the gyn is required).

‡ Issued with the carriage.

Equipment of B.L. 6-in., 5-in., and 4-in. Guns, for Permanent Works—*continued.*

TABLE 2—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 14—continued.			
Pumps, air, double, carriage, garrison, H.P.* †	1 per work of 3 or less disappearing carriages. 2 per work of more than 3 disappearing carriages.		
Reservoirs, compressed air‡	1 per 6-inch disappearing carriage.		
Rollers, shifting, No. 11§	1 per 5-inch gun.		
Rollers, shifting, No. 12§	1 per 4-inch gun.		
Separators, air pump	1 per air pump	To separate the air from the water.	
Slides, L, B.L. 6-inch, barbette	1 per gun, according to description of mounting approved.	For component and spare parts, &c., *see* pages 435 to 458.	
Slides, L, B.L. 6-inch, C.P.			
Spanners and special implements for mountings	... ...	*See* Appendix IX, pages 168 to 182.	
Spanners, No. 156	1 per double-decked platform.	For use when laying double-decked platforms.	57 Gen. No. 6465
Wrenches, pivot, No. 4	1 per work	For pivots of elevating bands, &c.	
Woolwich Section, No. 15.			
Barrows, powder	1 per work ¶	For moving powder or filled cartridges.	... 175
Woolwich Section, No. 16.			
Spikes, gun, common	2 per gun.		
Tools, painting and lacquering rifled ordnance ... sets	1 per district	For detail of tools *see* Table A, pages 54 and 55.	
Woolwich Section, No. 17.			
Boxes, obturating pads	1 per gun	To contain 3 pads and 3 sets of discs. For guns with obturating pads only.	
Box, spare parts, B.L. guns 6-inch	1 per 6-inch gun	For spare springs and other small spare parts of gun.	
Ordnance, B.L.	As authorised	For component and spare parts, also special implements and appurtenances, *see* pages 340 to 359.	
Woolwich Section, No. 18.			
Brushes, piasaba, B.L., bore	1 per 2 guns per work	For cleaning the bore.	
Canvas, packing, Hessian, 47-inch ... yards	2½ per gun	Annual allowance. For use with piasaba brush for cleaning bores.	
Cases, cartridge, No. 25	2 per 5-inch and 4-inch guns, and 6-inch guns, equipped with mark II cordite cartridges.	For bringing up cartridges.	... 9975

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* For list of spare parts, *see* page 577.

† As these pumps become unserviceable, they will be replaced by the "Pump air or liquid."

‡ To be kept in Artillery store when not in use

§ Issued with the carriage.

¶ Not required for any work in which all the cartridges are packed in cylinders.

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Equipment of B.L. 6-in., 5-in., and 4-in. Guns for Permanent Works—*continued.*

	TABLE 2—*continued.*	Proportions.	Remarks.
	Woolwich Section No. 18—continued.		
	Covers breech, B.L.	1 per gun.	
	Covers muzzle, B.L.	1 per 6-inch gun.	
	Keys, tampeon, B.L. small ...	1 per 2 guns or less number, 6-inch only.	Securing tampeon in gun.
	Rammers, B.L. 6-inch	1 per 6-inch gun, except disappearing carriages in circular pits.	
	Rammers, B.L. 5-inch	1 per 5-inch gun, also 6-inch on disappearing carriages in circular pits.	
	Rammers, B.L. 4-inch	1 per 4-inch gun.	
	Ropes, drag, heavy ... pairs	2 per work.	
	Scrapers, ordnance, B.L. 6-inch to 13·5-inch	1 per 6-inch gun ...	For cleaning powder chambers.
	Staves, end, B.L.	1 per piasaba brush.	
	Stores, for moving and mounting	Depend on mounting.	
28407 / Equip. / 1683	**Tackles,** gun, 3-inch white rope	2 per 2 or less No. disappearing carriages, 6-in.	For hauling down the gun if necessary.
		1 per gun, 6-in. on barbette carriage.	For running back at drill.
	Tampeons, B.L. L.S.* ...	1 per 6-inch gun.	For the muzzle.
	Tampeons, B.L.	1 per 5-inch and 4-inch gun.	For the muzzle.
	Woolwich Section, No. 20.		
	Bearers, cartridge cylinder† ...	2 per gun 6-inch B.L....	For carrying cylinders.
	Cylinders, cartridge, No. 22...	1 per full powder charge 6-inch	For cartridges.
57 / Gen. No. / 9975	**Cylinders,** cartridge, „ 32...	2 per 6-inch gun, equipped with Mark I cordite cartridges.	For conveying cartridges from magazine to gun.
	Woolwich Section, No. 21.		
	Cartridges, B.L. filled 6-inch	1 cordite¶ or 4 powder ($\frac{1}{4}$ charges) per projectile‡.	
	Cartridges, B.L. filled 5 „	2 ($\frac{1}{2}$ charges) per projectile.	
	Cartridges, B.L. filled 4 „	1 (full charge) per projectile.	
	Woolwich Section No. 22.		
	Batteries and keys, test and firing	1 per 6-inch gun ...	For use with electric tubes.
57 / Dover / 3383	**Boxes,** tube, vent-sealing, garrison	1 per gun	To be hung up in the emplacements as a receptacle for one tin box of 5 tubes.

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* Tampeon B.L. or Q.F. 6-inch will be issued when the existing stock of the Land Service pattern is used up.

† These are only required when the cartridge stores are far from the guns.

‡ Any $\frac{1}{2}$ charges of E.X.E. gunpowder already supplied will be first used up.

¶ The cordite cartridges will be gradually introduced under instructions from the War Office.

Equipment of B.L. 6 in., 5-in., and 4-in. Guns, for Permanent Works—*continued.*

TABLE 2—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 22—continued.			
Fuzes*, percussion, base large, No. 11	1 per 6-inch cast steel common - pointed shell.		
Fuzes*, percussion, direct action, No. 3 ‡	1 per 5-inch common shell, and 6-inch cast steel common shell taking nose fuze.	Mark III. for sea fronts, and Marks I.* and II. for land fronts.	57 Gen. No. 6590
Fuzes*, percussion, small, No. 8 ...	1 per 4-inch common shell.		
Fuzes*, time and percussion, middle, No. 54§	1 per 5-inch Shrapnel shell.	For use at long range.	
Fuzes*, time and percussion, short, No. 55 ...	1 per 4-inch Shrapnel shell.		
Implements, fuze shell, and cartridge, keys, basefuze and plug	1 per gun having projectiles with base-fuzes and plugs.		... 6321
Implements, fuze shell, and cartridge, keys, fuze, universal	1 per gun.		
Implements, fuze shell, and cartridge, keys, plug, G.S.		For removing plugs tightly fixed in shells	57 Portsmouth 4257
Lanyards, cocking...	1 per gun...	For guns with percussion locks.	
Lanyards, friction tube, garrison, No. 2 ...	3 per 6-inch gun on disappearing carriages.		
Lanyards, friction tube, garrison, No. 3 ...	3 per 6-inch gun not on disappearing carriages.		
Lanyards, friction tube, siege, No. 2 ...	3 per 5-inch and 4-inch B.L. guns.		
Straps, tube, box, long	1 per pocket gun layer.		57 Portsmouth 4789
Tubes, vent sealing†, electric, P.	1 per round, 6-inch B.L. guns only.		
Tubes, vent sealing†, percussion	1 per round.		
Woolwich Section, No. 22A.			
Gauges, shell, ring, B.L., band, 5-in. broad, high ...	1 per work.		
Gauges, shell, ring, B.L., band, 5-in. broad, low ...			
Gauges, shell, ring, B.L. body, 5-in.			
Gauges, shell, ring, B.L., Q.F., or Q.F.C., band, 6-in. and 4-in. broad, high			
Gauges, shell, ring, B.L., Q.F., or Q.F.C., band, 6-in. and 4-in. broad, low			
Gauges, shell, ring, B.L., Q.F., or Q.F.C., band, 6-in. gas check, high		For shells having driving band with gas check.	57 H. Kong 9878
Gauges, shell, ring, B.L., Q.F., or Q.F.C., body, 6-in. and 4-in.			
Implements, fuze shell and cartridge, holders, shell, B.L., 6-in. and 5-in.	1 per 2 guns	For fuzing shells with base fuzes.	57 Gen. No. 6590

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* The designation number is shown on the label of the cylinder or other package in which the fuze is packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

† After use the tubes will be returned to store, and forwarded to Woolwich as old metal.

‡ *See* footnote ‖ on page 209.

§ Existing stock of "fuzes, time sensitive middle No. 24" will first be used up.

Equipment of B.L. 6-in., 5-in., and 4-in. Guns, for Permanent Works—*continued.*

	TABLE 2—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 22A—continued.		
57 Gen. No. 6590	**Plugs**, base shell, large... ...	As required.	
	Protectors, armour-piercing projectiles, B.L., Q.F., or Q.F.C., 6-in.	1 per 6-inch A.P. shot.	To protect the point of the shot.
	Shells, B.L., filled*†‡ — common cast steel **	90 per cent., 6-in. only	
	common	45 per cent., 5-in. and 4-in.	
	Shrapnel	45 per cent., 5-in. and 4-in.	
	Shot, B.L.†‡ — Armour, piercing **	10 per cent., 6-in. only	
	case	10 per cent., 5-in. and 4-in.	
	Woolwich Section, No. 24.		
85 Gen. No. 8235	**Drivers**, grummet	1 per gun	For removing grope grummets from projectiles having driving band with gas check. } To be provided locally.
57 24 2133	**Planks**, stacking projectiles	1 per work for 6-inch only.	For rolling projectiles.
	Plugs, fuze hole, G.S., without loop	As required.	
	Woolwich Section, No. 25.		
	Brushes, flues, 5ft. 6in. ...	1 per work of 10, or less number of guns.	For cleaning recoil cylinders of disappearing carriages.
	Lamps, fighting§	2 per 6-inch gun	
	Measures, glass, 4 oz.	1 per work of only 1 disappearing carriage, or 2 per work of more than 1 disappearing carriage.	For measuring caustic soda solution.
	Woolwich Section, No. 27.		
57 Portsmouth 5503	**Flags** — red, 12 ft. × 6 ft. ...	1 per practice battery...	*See* paragraph 74.
	musketry instruction, red, 4 ft. × 3 ft.	As required for use by sentries posted on flanks of battery during practice.	In compliance with approved Bye-laws, *see* paragraph 74.

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* Supplied with fuze hole plugs, which, however, are separately shown, and are to be separately charged and accounted for.

† The proportions of projectiles here laid down for 6-inch guns will be maintained for the total number of guns in a district, and will be subject to the same conditions as laid down on page 212 for the heavier natures of B.L. guns.

57 Malta 936 ‡ In the case of two 6-in. B.L. guns at Fort Musta, Malta, the proportions will be: Common shell 45, shrapnel shell 45, and case shot 10 per 100 rounds.

§ Oil and wick for these are supplied by Army Service Corps, as required.

... 6599 ** The above proportions will be gradually introduced as the existing stock of iron common, and shrapnel shells, and Palliser shot is used up for practice.

Equipment of B.L. 6-in., 5-in., and 4-in. Guns, for Permanent Works—*continued.*

TABLE 2—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 28.		
Battery, Leclanché, 4 cell† ...	1 per lamp, electric, telescope.	
Cable, electric, D.*	Sufficient for 1 lead per gun	For firing guns electrically.
Lamp, electric, telescope ...	1 per position-finder or depression range-finder, where the electric search light is installed.	
Leads, flexible double strand, 2½ yds.†	1 per lamp.	
Switch and resistance coil† ...	1 ,,	
Wires, cotton covered, 6 yds.†	1 ,,	
Position-finders { depression	As authorised.	} *See* paras. 76 to 83.
Position-finders { horizontal	As authorised	
Woolwich Section, No. 29.		
Clinometers, large‡	1 per 3 guns or 1 per work.	For giving quadrant elevation and measuring vertical angles.
Hydro-clinometers	1 per 6-in. gun on barbette and V.C.P. carriages.	*See* paragraphs 59 and 60.
Indicators, range	As authorised	For coast batteries
Range finders, depression ...	As authorised	*See* App. II, pp. 110 to 123.
Stands, telescope, 2½-inch socket	1 per work	For use with telescopes.
Tapes, measuring, 50 feet ...	1 per sub-district ...	For measuring cordage, &c.
Telescopes, 3-feet	1 per work	For general use.

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* With garrison disappearing and barbette mountings, cable electric D. No. 9 will be used between plug box and firing key, and cable electric D. No. 10 between firing key and gun. For other services the No. 10 cable will be used between plug box and gun.

† These would not require to be exchanged in the event of a lamp being damaged.

‡ Stations having "Clinometer, Watkin," will retain them in use until they become unserviceable, when they will be replaced by the "Clinometer, large."

EQUIPMENT OF R.M.L. 12·5-IN., 12-IN. (35 OR 25-TONS), 11-IN., 10·4-IN., 10-IN., 9-IN., AND 7-IN. GUNS.

TABLE 4.	Proportions.	Remarks.
Woolwich Section, No. 2.		
Bars, crow, 6-feet	1 per battery	To act as powerful levers.
Lamps, tracing*	2 per gun...	For night firing.
Woolwich Section, No. 4.		
Boxes, grease, 3 lbs.	1 to 3 guns under 11-in. per work	For guns of higher natures, a grease box is fitted to each slide.

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* Oil and wick for these are supplied by Army Service Corps, as required.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

	TABLE 4—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 4—contd.		
	Carts, shot*	1 per sub-district ...	For moving projectiles.
	Drugs, gun, 25 tons†	1 per district	For moving guns up to 25 tons.
	Limbers, sling wagon, 12 tons ..	1 per district	Capable of moving guns up to 12 tons. *See* note.†
	Wagons, sling, 12 tons		
	Woolwich Section, No. 5.		
	Brushes, water, carriage	2 per gun...	1 for cleaning the sponge, and 1 for projectiles in gun emplacements.
38407 / Equip. / 1747	*Woolwich Section, No.* 7.		
	Chests, tool, filled No. 3 D	As authorised by para. 182	For repair of carriages and slides.
	Chests, tool, filled No. 11 E... ...	1 per work	
	Boards, range, fuze, scale	1 per 2 guns of same nature (except 9-inch H.A. guns), or when mounted singly, 1 per gun	To be provided locally.‡
	Cans, oil, lubricating G. S.§ ...	1 per gun on turntables	For lubricating bearings of turntables.
	Cans, oil, lubricating smiths§ ..	1 to 4 or less number of guns per work	Globular can, with fine spout.
	Hammers, claw, 28-oz.	2 per battery	For general use.
57 / Devonport / 6708	**Spanners** armament artificers, double-ended ⅝-in. and ⅝-in.	1 per 2 9-in. guns on H.A. mountings	For tightening up bolts of shell holder
57 / Portsmouth / 4761	**Spanners** armament artificers, double-ended 1½-in. ,, 1⅜-in. 1¼-in. ,, 1⅛-in. 1-in. ,, ⅞-in. ¾-in. ,, ⅝-in. ½-in. ,, ⅜-in.	1 set per work	For adjusting and tightening up bolts and nuts.
	Spanners McMahon, 15-inch	1 per battery, for all ordnance	For tightening nuts, &c.
	Wrenches, knock up, G.S.	1 per work; 2 if over 10 traversing slides ...	For tightening nuts, available for all natures of traversing slides.
	Woolwich Section, No. 10.		
	Filters, hydraulic jack	2 per sub-district; for small port carriages, 1 per work	For filling the jack.
	Frames Store, hydraulic jack ...	1 for every 4 or less number of hydraulic jacks in a sub-district	For keeping the jacks under pressure.
	Frames Block packing cap, rear roller jack	1 per jack when not permanently kept on a carriage	For use in the "frame store, hydraulic jack."
	Frames Block packing foot, rear roller jack		
	Jacks, lifting, hydraulic, Tangye's‖ 22½ tons ...	2 per district for guns of 35 or 38 tons	For general purposes.
	Jacks, lifting, hydraulic, Tangye's‖ 15 tons ...	2 per district for guns of 25 tons	
	Jacks, lifting, hydraulic, Tangye's‖ 7½ tons ...	3 per sub district ..	

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* Where trench carts are already in possession they need not be exchanged for shot carts until they become unserviceable.

† Drugs are specially intended for confined localities where the sling wagon could not be used, they would not therefore *both* be supplied except in important and extensive districts. They will in all cases be made the subject of special requisition.

‡ The fuze scale is either painted on the board or printed on paper and attached to the board.

§ When these cans become unserviceable they will be replaced by "Can, lubricating, No. 9."

‖ Instructions for the care and use of these jacks are given in Regulations for Magazines, etc., and in R.C.D. lithographs, Nos. 79 and 80, which should be demanded as required. Tangye's jacks will be replaced by G.S. jacks, of 30, 20, and 10 tons respectively, as the present stock of the former becomes used up.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 10—continued.		
Pad, frame, store, hydraulic jack ...	1 per hydraulic lifting jack.	
Slings, chain, 12 to 25 tons {breech muzzle	} 1 per heavy gyn.	
Spanner, No. 148	1 per 2 jacks O.P. ...	For taking jacks to pieces. N.B.—A spanner is supplied with the N.P. jack.
Woolwich Section, No. 11.		
Chalk, white ... ... lb.	2 per gun	Annual supply.
Glycerine ... ... lb.	1 per gauge pressure dead weight testing, Mark II.	For lubricating gauge.
Methylated Spirits ... ... galls.	As required for 9-inch high angle carriage	For H.P. cylinders.
Oil, mineral	As required for 9-inch high angle carriage; also sufficient to fill hydraulic buffers of other carriages and slides	For H.P. cylinders.
Soda, carbonate, dry	As required for 9-inch high angle carriages	For H.P. cylinders.
Solution, caustic soda, 1 pint bottles	As required for 9-inch high angle carriages	For reservoir, compressed air.
Woolwich Section, No. 14.		
Axletrees, transporting, slide, R.M.L., 11-inch to 7-inch	1 of each nature for each district or group of sub-districts (such as Isle of Wight or Portland) where required and roads are suitable.	
Barrows, projectile No. 1 ...	1 per R.M.L. 12·5-in. gun (except for emplacements with hydraulic muzzle lifts).	For service at the guns.*
,, 2 ...	1 per 12-in. 35-ton gun ...	
,, 3 ...	1 per 12-in. 25-ton or 11-in. gun	
,, 5 ...	1 per 10-in. gun† ...	
,, 6 ...	1 per gun, R.M.L. 12·5-inch, for emplacements with hydraulic muzzle lifts; and R.M.L. 10·4-inch.	
,, 10 ...	1 per gun, 10·4-inch; and 12·5-inch with hydraulic muzzle lift. 1 per gun, 12·5-inch (not provided with hydraulic muzzle lift), and 12-inch of 35 tons.	For service between the shell store and shell lift when required.
,, 11 ...	1 per gun, 9-inch to 12-inch of 25 tons, except 10·4-inch.	
	1 per 9-inch gun ...	For service at the guns *

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* In open works, not paved, a "Barrow, projectile, road," will be allowed in addition for each 35- or 38-ton gun, for transporting projectiles over roads, gravel, &c. "Barrows, projectile, shingle," are also allowed to certain works for transporting 12-in. and 12·5-in. projectiles over sand and shingle.

† No. 4 barrows in use with 10-in. guns will continue in use until worn out.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14—continued.		
Buckets, sponge, garrison	1 per gun	For general use.
Carriages, garrison* — R.M.L.† — (12·5-in. to 7-inch) casemate or dwarf small port	1 per gun, according to description of mounting approved.	For component and spare parts, *see* pages 460 to 487, and 546 to 553.
12·5-in. converted small port		
10·4-in. barbette ...		
10-inch Mark III ...		
9-inch Mark II ...		
9-inch high angle ...		
9-in. and 7-in. Moncrieff		
sliding medium, No. 7		
SPECIAL IMPLEMENTS.		
Carriages, garrison, R.M.L. 12·5-in. small port — Bars, lifting pump ...	1 per 6 or less carriages per work	For raising hydraulic lift.
Brackets, lifting pump		
Pipes, filling — hydraulic buffer	1 per work	For 7-feet recoil carriages only.
Pipes, filling — hydraulic lift		
Spanners	... ...	*See* Appendix IX, pages 168 to 182.
Tommies	... ...	
Wrenches — ram leather spindle gland	1 per work.	
Connections, indicator pressure ...	1 per 9-inch high angle carriage	For connecting indicator to recoil cylinders.
Covers, gear, firing, electric, No. 1 ...	1 per 10·4-inch gun.	
Gauge, pressure, dead weight, testing Mark II.	1 per sub-district for 9-inch H.A. carriage.	
Gyns, triangle, with appurtenances — heavy‡ ... light§ ...	1 per sub-district, or 2 if more than 3 works. (In exceptional positions, if more are considered necessary, they must be specially applied for)	Heavy for 12-ton guns and under, Light for 7-ton guns and under, of all natures.
Handspikes, common, 7-ft. ...	2 per gun...	Not to exceed 12 per work.
Indicator, pressure, spring, Mark II.	1 per 9-inch gun on high angle carriage.	

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* When mounted in casemates, drip pans are supplied for attachment to the carriage or slide to catch the drip of oil from the hydraulic buffer.

† Carriages mounted on slides, with fixed loading stages, in sunken way emplacements, will have a loop fitted on each side for guide ropes of rammers, except the 12·5-inch, which are fitted with metal guide brackets instead of loops.

‡ Complete with 1 gyn tackle, 1 erecting ditto (except for Mark II gyns), 4 windlass levers with ropes, 3 wood trucks, 3 slings of 9-inch rope (16, 7, and 3 feet long), and lashing for short slings. A gyn tackle consists of 18 fathoms of 5-inch white bolt (or hawser-laid) rope, with 2 treble 15-inch Bothway blocks. An erecting tackle consists of 7 fathoms of 2½-inch white rope, with 1 single 8-inch Admiralty block, for Mark I gyns, and 7 fathoms of 2½-inch white rope without the 8-inch block for the Mark II gyns; it is employed to raise the gyn tackle to the head of the gyn. There are also required 1 8-feet lever, and 4 heavy drag ropes (these will be supplied from the equipment of the work in which the gyn is required).

§ Complete with one gyn tackle, 4 levers (2 of which with ropes), 3 wood trucks, and 2 slings of 7-inch white rope. The gyn tackle consists of 18 fathoms of 4-inch white bolt rope with 2 treble 12-inch Bothway blocks. There are also required 4 heavy drag ropes (these will be supplied from the equipment of the work in which the gyn is required).

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*

	Proportions.	Remarks.	
Woolwich Section, No. 14—contd.			
Levers, pointed, No. 1 ...	2 per gun, except 10-in. small port, all guns on Moncrieff and high angle carriages, and guns mounted in sunken way emplacements with fixed loading stages	For 25-ton guns and over; For elevating the gun or running up the carriage.	
Levers, pointed, No. 2 ...		For guns under 25 tons; For elevating the gun or running up the carriage.	
Levers, pointed, No 3	2 per 10-in. small port gun	For running up or back.	
Levers, pointed, No. 5, 6, *or* 7 ...	3 per Moncrieff 7-in. or 9-in. gun		
Levers, pointed, No. 8	2 per gun mounted in sunken way emplacements with fixed loading stages.		
Levers, iron shod, crow, 7 feet ...	1 per work for all ordnance	For drawing bolts, &c.	
Levers, steel shod, 5 feet	2 per slide, but if fitted with traversing gear, 2 per work	Used in traversing the slide.	38407 Equip. 1747
Levers, 8 feet	1 per heavy gyn... ...	For lifting prypole.	
Limbers, transporting slide, L, iron	1 for each district or group of sub-districts (such as Isle of Wight or Portland) where required, and roads are suitable	*See* Axletrees.	
Measures, hydraulic buffer, draw-off, 2 pints	1 per work for 12·5-in. small port carriages	For 7-ft. recoil carriages only.	
Measures, hydraulic buffer, filling	1 per work	For filling the cylinders of hydraulic buffers and cylinders of high angle carriages.	
Pockets, gun layer	1 per gun, 12·5-in. Mark II, 10·4-in., and 9-in. and 10-in. on high angle carriages.		57 Portsmouth 4789
Pump, air, double, carriage, garrison, hydro-pneumatic† ...	1 per work of 3 or less 9 inch guns on high angle carriages. 2 per work if over 3 carriages.		
Reservoirs, compressed air*	1 per 9-inch high angle carriage.		
Sabots, barrow, projectile, No. 1 ...	1 per 12·5-inch and 10·4-inch projectile.	For Nos. 1 and 6 projectile barrows.	
Separators, air pump...	1 per pump	To separate the air from water.	
Slides, L. R.M.L. (12·5-inch to 7-inch) converted small port casemate or dwarf small port	1 per gun, according to description of mounting approved	Moncrieff slides are issued with the carriages. For component and spare parts, *see* pages 488 to 525.	
Slides, L. R.M.L. 10·4-inch barbette			
Slides, L. R.M.L. 10-inch, dwarf "C" Mark II			
Slides, L. R.M.L. 9-inch, dwarf "C" Marks II and III			
Slides, L. medium, No. 7	1 per 7-inch 6½ ton		
Spanners, and special implements for mountings	... ...	*See* Appendix IX, pages 168 to 182.	

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* To be kept in Artillery Store when not in use.

† As these pumps become unserviceable they will be replaced by the "Pump, air or liquid."

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Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14—continued.		
Stages, loading	1 per gun	For each gun in C or D emplacement with sunken ways when not provided with fixed loading stages.
Trestles, loading, R.M.L.	1 per 11-inch and 12-inch 25-ton guns in "C" emplacements, without sunken ways	For supporting the side arms when loading.
Trolleys, loading, R.M.L.	1 per 9-inch H.A. gun	For loading.
Turnscrews, slide, R.M.L. 12·5-inch	1 to 5 guns or less, 35 and 38-ton, per work	For connecting running in and out chains of slides.
Wheels, transporting, No. 85 ...	1 pair for each district or group of sub-districts (such as Isle of Wight or Portland) where required, and roads are suitable	*See* Axletrees.
Wrenches, pivot No. 1	1 per battery	For fixing the elevating arcs of 7-inch guns and upwards, and the muzzle derricks and index plates of 9-inch guns and upwards.
Wrenches, pivot ,, 4	1 per battery, except 12·5-inch Mark II and 10·4-inch	For fixing screws of reflecting sights and elevating plates, and for removing pivots.
Woolwich Section, No. 15.		
57 Gen. No. 175 **Barrows,** powder	1 per work ¶	For moving powder or filled cartridges.
Woolwich Section, No. 16.		
Plugs, vent	1 per gun except axial vented and H.A. guns.	To protect the vents of mounted guns at home stations and in cold climates.*
Spikes, gun common	2 per gun except 9-inch H.A. guns.	For spiking vents permanently.
Spikes, gun spring, A or B† ...	1 per gun where required	For spiking vents temporarily.
Tools, painting and lacquering rifled ordnance ... ... sets	1 per district	For detail of tools, *see* Table A, pages 54 and 55.
Ventservers‡	2 per gun except axial vented and H.A. guns.	To place in the vent while loading, also for plugging the vents of guns mounted in warm climates, the lanyard being removed for this purpose.
Wrenches, sight, S.B.	1 per battery	For securing readers.

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* At Halifax the vents will be secured by tow steeped in Field's grease and capped with putty.

† Only to be demanded for guns in advanced or exposed works.

‡ Whipcord should be demanded separately, for making the lanyards.

¶ Not required for any work in which all the cartridges are packed in cylinders.

Equipment of R.M.L. 12·5-in. 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 17.		
Ordnance, R.M.L. 12·5 to 7-inch	As authorised	For component and spare parts, also special implements and appurtenances, *see* pages 364 to 371.
Ordnance, R.M.L. covers, vent, steel, cone, 10-inch and 9-inch	1 per gun, having the vent, steel, cone.	To protect the vent.
Ordnance, R.M.L. cradles, vent	1 per battery for 12·5-inch Mark II guns	
Ordnance, R.M.L. tommies, contact	1 per 10·4-inch gun	
Ordnance, R.M.L. wrench, stud, trunnion	1 per 12·5 inch Mark II gun.	
Prickers, vent 29-inch	2 per 12-inch 35-ton or 12·5-inch Mark I gun.	
Prickers, vent 23-inch	2 per 9-inch up to 12-inch 25-ton guns, except 10·4-inch and H.A. guns.	
Prickers, vent 17-inch	2 per 7-inch gun.	
Punches, vent 22-inch ..	1 per 10-inch and up to 12·5-inch Mark I guns inclusive, except 10·4-inch	Used for removing obstructions in vent channel.
Punches, vent 17-inch ...	1 per 7-inch, and 9-inch guns, except H.A. guns.	
Wrenches, sight, R.M.L. acorn ...	1 per battery	For fixing and removing the G.H.J. (acorn) sights.
Woolwich Section, No. 18.		
Bags, extractor, projectile 12·5-in.	12·5-in. to 10-in., except 10·4-in. } 1 per extractor	To cover the head.
Bags, extractor, projectile 9 "	9-in. and 7-in. } 1 per extractor	
Blocks loading tackle, No. 8* ...	2 per gun 10-inch and upwards fitted with muzzle derricks mounted in sunken way emplacements.	For rammer ropes.
Blocks wood, Bothway, single 8-inch	1 per gun, mounted in sunken way emplacements with movable loading stages.†	For the running end of fall of loading tackle. The block is hooked into a permanent eye in the wall of the parapet.
Brushes, piasaba, R.M.L. (12·5-inch to 7-inch)	1 per practice battery for each nature of gun from which practice is carried on	For cleaning out the grooves.
Caps, sponge (No. 9 to No. 14)‡ ...	1 per sponge where necessary	To protect sponge head.
Cordage, hawser, 3-strand white, fms.	According to gun§ ...	For the running back gear.
Extractors, projectile R.M.L. (12·5-inch to 7-inch)	2 per battery of each kind required, except 10·4-in. guns and 7-in. guns on Moncrieff carriages.	The 10, 11, and 12-inch studded take the same extractor.

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* For the 12·5-inch with fixed loading stages the rammer ropes are passed through metal guide brackets fixed to the sides of the carriages.

† When the slides are fitted with *fixed* loading stages, iron snatch blocks form part of the slide (*see* pages 490 and 491).

‡ Only to be used for sponges in transit or where stores are damp.

§ 35-ton guns take 12 fms. 3½-inch rope, 25-ton guns 13 fms. 3-inch, and 18 and 12-ton guns 10 fms. 3-inch rope.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 18—continued.		
Extractors, projectile R.M.L., 7-in., Mark II	2 per battery for 7-inch guns on Moncrieff carriages.	
Heads, rammer and sponge	1 per 10·4-in. gun.	
Keys, tampeon, large	1 per 2 or less number of 10·4-in. guns.	Securing tampeon in gun.
Lashings, white, 1½-inch, 24-feet ...	1 per rammer for 7-in. 6½-ton guns on 6-ft. parapet carriage and slide.	For ramming home when necessary.
Rammers, R.M.L., (12·5-inch to 7-inch) 7 tons*	1 per gun on sliding carriage, except 10·4-inch.	
Rammers, R.M.L., 9-inch Moncrieff ...	1 per 9-inch gun on Moncrieff carriage.	
Rammers, R.M.L., 7-inch 6½-ton	1 per gun on 6-ft. para carriage and slide.	For emplacements 75 feet above sea level.
Rammers, R.M.L., jointed, 7-inch, 6½-ton, 6-ft. parapet	1 per 7-inch 6½-ton gun on 6-ft. parapet carriage and slide.	For emplacements below 75 feet.
Rammers, R.M.L., jointed, 7-inch, Moncrieff ...	1 per 7-inch gun on Moncrieff carriage.	
Ropes, drag, heavy ... ... prs.	2 per work for all ordnance.	
Ropes, guide, rammer, R.M.L. ...	2 per rammer 12·5-inch to 10-inch. All 9-inch mounted behind shields and in sunken way emplacements, also 7-inch 6½-ton with straight rammer†	To assist in loading.
38407 Equip. 1865 **Selvagees,** projectile...	2 per 9-inch gun and over, and 1 per 7-inch gun on Mark II Moncrieff mountings.	For hoisting projectile to muzzle.
71 1 8284 **Sponges,** R.M.L., (12·5-inch to 7-inch)‡ ...	1 per gun on sliding carriage, except 10·4-inch.	
Sponges, R.M.L., 9-inch taper head... ...	1 per gun on H.A. carriage.	
Sponges, R.M.L., 9-inch Moncrieff	1 per gun on Moncrieff carriage.	
Sponges, R.M.L., 7-inch Moncrieff ...	1 per gun on Moncrieff carriage.	
Sponges, R.M.L., 7-inch 6½ tons, 6-foot parapet.	1 per 7-inch 6½-ton gun on 6-ft. carriage and slide	
Staves, end, R.M.L. 9-inch Moncrieff	1 per set of side arms for guns on Moncrieff carriages.	For lengthening the side arms. The construction of the Moncrieff pit does not allow of the use of a side arm with a long wood stave in one piece.
Staves, extractor, projectile, R.M.L. 7-inch Moncrieff	1 to every 3 guns on Moncrieff and 6-ft. parapet carriages in a work.	For use with the extractor projectile, and worm wadhook.

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* In the case of 12·5-inch guns in casemates, an iron eye is fitted to the back of the head, for slinging the rammer. For 12·5-inch guns that can only be fired with blank charges during peace time at station practice, an additional rammer of Mark I pattern will be allowed; the Mark II pattern (§ 3840 L.C.) being too short in the stave for blank charges.

† Loops for rammer ropes for the 9-inch gun will be fitted locally, and in demanding rammers for these guns the number of loops required should be stated.

‡ In the case of 38-ton guns in casemates, an iron eye is fitted to back of head for slinging the sponge.

Equipment of R.M.L. 12·5-in., 12-in, (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 18—continued.		
Stores for moving, mounting, &c., heavy R.M.L. guns	*See* para. 61, and Appendix I.	18- to 38-ton guns.
Tackles, gun, 3-inch white rope*	2 per 2 or less number of traversing slides when not fitted with traversing gear, if so fitted 2 per battery	For traversing the slide and running the gun back at drill, where there is no running back gear.
	2 per 2 guns or less, mounted on Moncrieff carriages per work	For running back the gun.
Tackles, loading,† derrick { 12·5-inch‡ 10-inch§ ...	1 per gun, 9-inch and over, mounted in open works	For raising the projectiles to the muzzle.
	1 per gun, 9-inch and over, mounted in emplacements provided with sunken ways and movable loading stages	For placing the projectiles on the loading stages.
	1 per derrick for 9-inch H.A. guns	
Tackles, loading,† shield { 12·5-inch‖ 10-inch¶ ...	1 per gun, 9-inch and over, mounted behind shields	For raising the projectiles to the muzzle.
	2 per gun, mounted on turntable	1 for front and 1 for rear loading.
Tackles, slinging side arms** prs.	1 per 12·5-inch gun in casemates and on turntables, also 1 per 10-inch gun on turntable	For slinging side arms to roof of casemate.
Tackles, shell room	1 per 2 9-inch guns on H.A. carriages	For use with shell holder.
Tampeons, R.M.L. (12·5-inch to 7-inch)†† .	1 per gun	For the muzzle; to protect the bore.

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* Consists of 16 fms. of 3-inch white rope, with 1 double and 1 treble 9-inch Admiralty blocks.

† For description and mode of application, *see* §§ 3907 and 4675, Lists of Changes.

‡ For 12·5-inch, 12-inch, and 11-inch guns, 1 treble and 1 double block, with hooks, and 10 fms. of 2½-inch white rope.

§ For 10-inch and 9-inch guns, 1 double and 1 single block, with hooks and 9 fms. of 2-inch white rope.

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‖ For 12·5-inch, 12-inch, and 11-inch guns, 1 treble block with shackle (except in certain works mentioned in Appendix I, where a special block with large hook is required), and 1 double block with hook, and 10 fms. of 2½-inch white rope.

¶ For 10-inch and 9-inch guns, 1 double block with shackle and 1 single block with hook, and 7½ fms. of 2-inch white rope.

** Consists of:—

Woolwich Section, 18.

Balls, tackle, slinging side arms ...	1	Eyes, tackle, slinging side arms ...	1
Blocks, loading tackle, No. 8	1	Hooks, tackle, slinging side arms ...	1
Cordage, hawser, 3-strand, white, 1½-inch (lengths of 10 feet)	2	Rings, tackle, slinging side arms ...	2

The ropes are connected by a ring, having at one end another ring, and at the other end a ball and a hook, the latter to fit into the small eye in the rammer or sponge head. Where 2-inch tarred rope is in use with these tackles it will not be replaced until worn out.

†† The two 9-inch Mark VI guns at Fort Cumberland, Southern District, which cannot be depressed, are provided with muzzle covers.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25-tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 18—continued.		
57 Portsmouth 4404 **Wadhooks,** R.M.L. (12·5-inch to 7-inch) ... 9-inch Moncrieff ...	1 to every 2 guns on high angle mountings 1 per 3 guns, of other natures, except 10·4-inch, in a work or battery, according to calibre*	For drawing charge and searching the bore.
Worms, wadhook, No. 1	1 per 3·7-inch guns in a work, for use with jointed stave	
Woolwich Section, No. 19.		
Scotches, medium	As required	For scotching up the ends of piles of projectiles.
Skids 6 ft. 8 in. × 6 in. × 4 in. ...	1 per carriage 12·5-inch (7 feet recoil), fitted with rear roller jack	For keeping the carriage run back on its rollers when the rear roller jack is pumped up to preserve the leather packings.
Skids 5 ft. 8 in. × 6 in. × 4 in. ...	1 per carriage 12·5-inch (6 feet recoil), fitted with rear roller jack	
Woolwich Section, No. 20.		
Bearers, cartridge cylinder, Mark III†	2 per gun...	For carrying and opening cylinders 10-inch and upwards. For opening cylinders 9 and 7-inch.
Cylinders, cartridge, R.M.I. ...	As required.	

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* If additional wadhooks are required for drill, they must be collected from other guns.

† These are only required when the cartridge stores are far from the guns.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25 tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*

			Proportions.				
			Per				Remarks.
			Palliser shot.	Shell.	Round of case shot.		
Woolwich Section, No. 21.							
Cartridges, R.M.L., filled, serge *or* silk cloth	12·5-inch	82½ lb. *a*	2	2	2	½-charge, Mark I gun.	*a*. Silk cloth only. *b*. Studless common and Shrapnel shell, and studded common shell not fitted for gas checks, except Mark I and II, also paper shot. *c*. Studded common Mark I and II and Shrapnel shell 35-ton gun, also studless common and Shrapnel shell, and Palliser, paper, and case shot, 25-ton gun. *d*. Studded common shell fitted for gas checks, and studded Shrapnel shell. *e*. Studless common and Shrapnel shell, and studded common shell not fitted for gas checks, also paper shot. *f*. All projectiles for guns mounted on Moncrieff carriages, studless common and Shrapnel shell, studded common and Shrapnel shell not fitted for gas checks, Mark VI, studded common shell and paper shot for guns mounted otherwise than on Moncrieff carriages. *g*. All projectiles except studded Shrapnel for guns mounted on Moncrieff carriages, studded common shell and paper shot for guns mounted otherwise than on Moncrieff carriages. *h*. Studded Shrapnel shell.
		50* ,, *a*	4	4	4	¼-charge, Mark II gun.	
	12 ,,	110 ,, ...	1	1 *b*	1	35-ton gun.	
		85 ,, ...	1	1 *c*	1		
		55 ,, ...	—	1 *d*	—		
	11 ,,	85 ,, ...	1	1 *e*	1		
		60 ,, ...	—	1 *d*	—		
	10·4 ,,	95 ,, *a*	1	1	1		
	10 ,,	70 ,, ...	1	1 *e*	1		
		44 ,, ...	—	1 *d*	—		
	9 ,,	25 ,, *a*	2	2 *f*	2	½-charge.†	
		33 ,, ...	—	1 *d*	—		
		12½ ,, *a*	§	*hc*	—	¼-charge, Marks VI*a* *b* and *c* guns‡	
		6¼ ,, ...	§	§	—	⅛-charge, Marks VI*a* *b* and *c* guns‡	
	7 ,,	30 ,, ...	1	1 *g*	1		
		17 ,, ...	—	1 *h*	—		

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* 47½ lb. (¼) charges Prism 2 will be used for practice.

† The 50-lb. charges will be first used up.

‡ 400 ¼-charges and 100 ⅛-charges to be maintained as equipment of a gun, so that ⅜-charges may be fired when necessary.

§ As required, according to charge to be used.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25 tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

	TABLE 4—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 22.		
57 D'port. 7142	**Battery** and key, test and firing	1 per 10·4-inch and 9-inch high angle gun	For use with electric tubes.
	Boxes, tube, garrison	1 per gun, except 12·5-inch Mark II, 10·4-inch and 9-inch, H.A.	For friction tubes.
	Boxes, tube, vent-sealing, garrison	1 per 12·5-inch Mark II, 10·4-inch, and 9-inch H.A. guns	To be hung up on the walls of the casemate as a receptacle for 1 tin box of tubes.
	Fuzes*, percussion, base, large, No. 11	1 per common shell 9-in. H.A. guns	Issued in cylinders containing 5 each.
	Fuzes*, percussion, direct action,† No. 3	1 per common shell 9-in. and over, except 9-inch H.A. guns	
	Fuzes*, percussion, Pettman, G.S., No. 5	1 per 7-in. common shell	
	Fuzes*, time, 15 seconds, M.L.,‡ No. 41	1 per Shrapnel shell over 10-inch, also 7-in.	
	Fuzes*, time, 15 seconds, with detonator, No. 43	1 per Shrapnel shell 9-in. and 10-in.	
	Horns, powder§	1 per battery for all ordnance	For priming guns if required.
57 Ports. 3924	**Implements,** fuze shell and cartridge, Extractors, fuze, small rifled	1 per gun	For extracting wood fuzes.
	Bits, hook borer	6 per gun	For guns with wood time fuzes.
	Cylinders, common	1 per gun	
	Handles, hook borer	1 per gun	
	Hooks, hook borer	1 per gun	
	Keys, fuze, universal ‖	2 per gun	
	Keys, base fuze and plug	1 per R.M.L. 9-in. H.A. gun	
	Wrenches, base plug	1 per gun	
	Lanyards, friction tube, garrison, No. 1	3 per 12·5-in. Mark II.	
	No. 2	3 per gun on Moncrieff carriages.	
	No. 3	3 per gun, except 12·5-in. Mark II, 10·4-in., 9-in. H.A. guns on Moncrieff carriages and those using No. 6 lanyard.	
84 T 1637	No. 6	2 per radially-vented guns on carriages, with rear sighting steps.	
	Pockets, tube, electric, No. 10	1 per gun in connection with position-finders, except axial vented and 9-inch H.A. guns	To hold one cylinder.
57 Ports. 4789	**Straps,** tube box, long	1 per garrison tube box and pocket gun layer.	
	Tubes,¶ electric, No. 10	1 per round for 9-inch guns and over (except axial vented and H.A. guns) in connection with position finders.	

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* The designation number is shown on the label of the cylinder or other package in which the fuze is packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

† Pettman, G.S., may be used with 9-in., 10-in. and 12-in. studless shell and full charges.

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‡ Will replace the 9-seconds fuze when the store is used up.

§ Contains 1¼ lb. of gunpowder, which will be supplied as required.

‖ The "keys fuze, and plug G.S." now on charge will first be used up.

¶ Ater being fired the tubes will be returned to store and forwarded to Woolwich as old metal.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25 tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 22—continued.		
Tubes*, friction, copper, solid drawn, with ball	1 per round for 9-inch guns and over (except axial vented and H.A. guns) not in connection with position finders. 1 per round for 9-inch guns and over (except axial vented and H.A. guns) in connection with position finders. 1 per round for 7-inch guns.	
Tubes*, vent-sealing, electric, P	1 per round for 10·4-inch and 9-inch Mark VI*a* guns.	
Tubes*, vent-sealing, electric, V	1 per round for 12·5-inch Mark II guns in connection with position finders.	
Tubes*, vent-sealing, friction, V	1 per round for 12·5-inch Mark II guns not in connection with position finders. 1 per round for 12·5-inch Mark II guns in connection with position finders.	
Woolwich Section, No. 24.		
Bars, lifting shell, 11·25-inch ...	1 per 2·9-inch guns, on H.A. mountings.	For use with shell-holder. To be provided locally.
Bearers, shot, R.M.L., 9-inch ...	1 per 9-in. gun, when specially required	Used in loading.
Bearers, shot, R.M.L., 7 " ...	1 per 7-in. gun, when specially required	Used in loading.
Gas-checks, R.M.L., 12·5-inch to 9-inch, except 9-inch Mark VI*a*.	1 per studless projectile, and 1 per studded Palliser or common 9-inch to 12·5-inch, and Shrapnel 12·5-inch	
Gas-checks, R.M.L., 9-inch, polygroove	1 per projectile, 9-inch Mark VI*a*.	
Gauges, shell, ring, R.M.L., body and gaschecks, 12·5-in. to 9-in.	1 per sub-district, per calibre.	
Gauges, shell, ring, R.M.L., body and studs, 12·5-in. to 7-in., except 10·4-in.	1 per sub-district, per calibre.	
Grummets, projectile...	1 per studless Palliser shot (except Mark II) and 1 per 12·5-inch studless cast-iron common and Shrapnel shell	For protecting base.

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* After being fired the tubes will be returned to store and forwarded to Woolwich as old metal.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25 tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

	TABLE 4—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 24—continued.		
57 Devonport 6708	**Implements.** fuze shell and cartridges, holders, shell, for laboratories, 9-in.	1 per 2 9-inch guns, on H.A. carriages.	For fixing gas checks and fuzing shells with base fuze.
57 Gen. No. 6321	**Implements.** fuze shell and cartridges, spanners, gas-check, nut, 7-inch	1 per gun	For 7-inch guns and over.
57 Portsmouth 4762	**Instruments,** fixing gas checks, R.M.L. 9-inch and 10-inch	1 per 2 guns on H.A. carriages	For attaching gas checks to projectiles.
	Levers, grummet	2 per gun	For removing grummets. from base of projectiles.
57 24 2133	**Planks,** stacking projectiles	1 per 3 guns or under, for 9 inch guns and over	For rolling projectiles on.
	Plugs, fuze hole, G.S., without loop	1 per shell.	
	Shells, R.M.L., filled ... ... **Shot,** R.M.L.	... ...	*See* end of Table.
	Wads, wedge, 9-inch... ... ... **Wads,** wedge, 8 ,, ...	12·5 inch to 9-inch (except 10·4-inch, and 9-inch H-A. guns) 7-inch ... 1 per round except caseshot	Placed in front of the projectile to prevent its shifting.
	Wads, wedge, 9 ,, ...	1 per 7-inch, 6½ tons on No. 7 medium carriage	For placing under the front roller to prevent the carriage running up after recoil.
	Woolwich Section, No. 25.		
	Lamps, fighting*	2 per casemate.	
	Measures, glass, 4 oz. ...	1 per work of only one 9-inch high angle carriage 2 per work of more than one carriage	For measuring caustic soda solution.
	Woolwich Section, No. 27.		
57 Ports. 3503	**Flags,** red, 12 ft. × 6 ft.	1 per practice battery ...	*See* para. 74.
	Flags, musketry, instruction, red, 4 ft. × 3 ft.	As required for use by sentries posted on flanks of battery during practice	In compliance with approved bye-laws, *see* para. 74.
	Woolwich Section, No. 28.		
	Batteries, Le Clanché, 4-cell‡ ...	1 per lamp electric telescope.	
57 Dover 3319	**Cable,** electric, D, No. 10	30 yards per gun ...	For electric firing leads.
	Lamps, electric, telescope	1 per position-finder or depression range-finder where the electric search light is installed.	
	Leads, flexible, double strand, 2½ yards (a)‡	1 per lamp.	
	Switch and resistance coil‡ ...	1 ,,	
	Wire, cotton covered, 6 yards‡ ...	1 ,,	

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* Oil and wick for these are supplied by Army Service Corps, as required.

‡ These would not require to be exchanged in the event of a lamp being damaged.

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25 tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

TABLE 4—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 28—continued.		
Position-finders, depression ...	As authorised	*See* paras. 76 to 83.
Position-finders, horizontal ...	As authorised	
Woolwich Section, No. 29.		
Apparatus, observation of fire ...	As authorised	Land fronts, high angle batteries.
Clinometers, large*	1 per work	For giving quadrant elevation and measuring vertical angles.
Hydro-Clinometers	1 per gun, 9-inch and upwards, except 10·4-inch, and 9-inch on Moncrieff and high angle mountings	*See* paras. 59 and 60.
Indicators, range	As authorised	For coast batteries.
Range finders, depression	As authorised	*See* Appendix II, pages 110 to 123.
Stands, telescope, 2½-inch socket ...	1 per work for coast batteries where a flag is displayed by regulation	These may also be allowed to important works when specially recommended.
Tapes, measuring, 50 feet	1 per sub-district ...	For measuring cordage, &c.
Telescopes, 3 feet	1 per work for coast batteries where a flag is displayed by regulation	These may also be allowed to important works when specially recommended.

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* Stations having "Clinometers, Watkin," will retain them in use until they become unserviceable, when they will be replaced b the "Clinometer, large."

Equipment of R.M.L. 12·5-in., 12-in. (35 or 25 tons), 11-in., 10·4-in., 10-in., 9-in., and 7-in. Guns—*continued.*

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The proportions of projectiles herein laid down will, except for 9-inch Mark VI*a*, and 7-inch R.M.L., be maintained for the total number of guns of each nature in a district, but the number of each description of projectile for individual guns will be decided by the general officer commanding the district, according to the relative importance of the position of each gun, and the purpose for which its fire would most probably be required in the event of an attack, provided that the total number as laid down in para. 44 is adhered to.

For the 9 inch High Angle, and 7-inch R.M.L., the proportions herein given will be maintained for each gun in all cases.

TABLE 4—*continued.*

	Class I. — Guns supported by auxiliary fire, or by guns of smaller calibre bearing on the same field.		Class II. — Guns unsupported (or practically unsupported) by auxiliary fire.		Class III. — Guns which only fire on land fronts.	Special. For Ironclad Forts.			Remarks.
							Plymouth Breakwater.		
	9 inch and upwards. **	7-inch.	9-inch and upwards.	7-inch.*	Such as the 7-inch guns at Hoo Fort.	Spithead Forts and Portland Breakwater.	12·5-inch.	10-inch.	
Shells. R.M.L.† common	50	70	40	70	45	45	45	45	Per 100 rounds.
Shrapnel	—	20‖	15	15‖	45‖	—	—	—	
Shot. R.M.L. case‡	—	—	10	10	20	5	5	10	
Palliser	50	10	40	10	—	50	50	10§	

** The proportion for the 9-inch Mark VI*a* on high angle carriage is 100 common studless heavy cast steel shell. The studless heavy Palliser shot, at present on charge, will be expended at practice and replaced by the common cast steel shells.

* The proportions for the 7-inch guns at Sierra Leone, will be:—Common shells 60, Shrapnel shell 25, Case shot 10, and Palliser shot 10.

† Supplied with fuze hole plugs, which, however, are separately shown and are to be separately charged and accounted for.

‡ 2 shot per round except 12·5-inch and 10·4-inch.

§ The remaining 40 to be kept in ordnance store charge.

‖ The existing equipment of Shrapnel shell for 7-inch guns on Moncrieff carriages will be expended at practice and replaced by common shell.

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EQUIPMENT OF R.M.L. 6·6-INCH, 80-PR. (CONVERTED), 64-PR. (WROUGHT-IRON OR CONVERTED), AND 40-PR. GUNS.

Armament of Works.

TABLE 5.	Proportions.	Remarks.
Woolwich Section, No. 4.		
Carts, trench	1 per sub-district	For moving projectiles.
Drugs, gun, 5 tons	1 per district	Suitable for all ordnance up to 5 tons. *See* note †, page 220.
Limbers, sling wagon, 6 tons	1 per district, if necessary	Available also for B.L. and S.B. ordnance. *See* note †, page 220.
Wagons, sling, 6 tons		
Woolwich Section, No. 5.		
Brushes, water, carriage	2 per gun	1 for cleaning the sponge, and 1 for projectiles in gun emplacement.
Woolwich Section, No. 7.		
Chests, tool, filled No. 3 J	As authorised. *See* para. 182.	
Chests, tool, filled ,, 11 E	1 per work.	
Boards, range, fuze scale	1 per 2 guns of same nature, or 1 per gun where mounted singly	To be prepared locally.*
Cans, oil, lubricating, smiths†	1 per 6 guns or less per work	Globular can with fine spout.
Hammers, claw, 28 oz.	2 per battery for all ordnance	For general use.
Spanners, McMahon, 15-inch	1 per battery for all ordnance	For tightening nuts, &c.
Wrenches, knock up, G.S.	1 per work, 2 if over 10 slides	For tightening nuts, &c., available for all natures of slides.
Woolwich Section, No. 10.		
Apparatus, anchoring, carriage, 6·6-in.	1 per carriage	For 6·6-in. gun on siege carriage.
Woolwich Section, No. 11.		
Chalk, white ... lbs.	2 per gun	Annual supply.
Oil, mineral ... gallons	Sufficient to fill the hydraulic buffer.	
Woolwich Section, No. 14.		
Axletrees, transporting slide, L. iron, R.M.L. 7-inch	1 for wood and 1 for iron slide for each District or group of sub-districts (such as Isle of Wight or Portland) where required, and roads are suitable	A further supply will be allowed, when necessary, on special representation. Those for wood slides as well as their limbers and wheels, are available also for the R.B.L. and S.B. ordnance.
Axletrees, transporting slide, L. medium, wood		

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* The fuze scale is either painted on the board, or printed on paper and attached to the board.

† When these cans become unserviceable they will be replaced by "Can, lubricating, No. 9."

Equipment of R.M.L. 6·6-in., 80-pr. (Converted), 64-pr. (Wrought-iron or Converted), and 40-pr. Guns—Armament of Works—*continued*.

TABLE 5—*continued*.	Proportions.	Remarks.
Woolwich Section, No. 14—cont.		
Buckets, sponge, garrison ...	1 per 2 guns	To hold water for damping the sponge.
Buffers, hydraulic, circular ...	... ...	For No. 8 medium slide. 64-pr. fitted with circular buffers.
(SPECIAL IMPLEMENTS.)		
Buffers, hydraulic, circular — Rings...	1 per battery ...	Metal, guide, leather packing.
Spanners No. 1		Box, piston, and valve block.
Spanners ,, 2		Locking valve.
Wrenches ,, 1		Gland rings.
Wrenches ,, 2		And screw-driver, securing valve and valve block, with tommy.
Carriages — garrison, R.M.L. — 64-pr. 71 to 58 cwt., common	1 per gun, according to description of mounting approved	No. 1 (iron), No. 2 (iron), or wood, 64-pr. 58 cwt. Wood carriages are fitted with Allen brakes.
garrison, R.M.L. — 64-pr. 58 cwt. — depression		For component and spare parts, *see* pages 526 to 545.
garrison, R.M.L. — 64-pr. 58 cwt. — Moncrieff		
garrison, sliding medium (Nos. 8, 9, 10, 11, 12, 13, 14, 21, 22, 23, 24, and 25).		
siege, R.M.L. — 6·6-in. gun*		
siege, R.M.L. — 40-pr. ...		
(SPECIAL IMPLEMENTS.)		
siege, R.M.L. 6·6-inch gun — keys — box — set screw	1 per 6·6-in. carriage.	
keys — box — union ...	1 ,, ,,	
keys — gland	1 ,, ,,	
keys — plug	1 ,, ,,	
keys — T	1 ,, ,,	
mallets	2 ,, ,,	
spanners, Nos. 109 to 114	1 ,, ,,	*See* Appendix IX, pages 168 to 182.
tommies	1 ,, ,,	
Coins, hand — No. 4	1 per 40-pr. siege carriage	
Coins, hand — ,, 7	1 ,, ,,	
Derricks, loading, slide — medium — No. 8 ...	1 per 64-pr. mounted on 5 ft. 6 in. or 6 ft. parapet carriage and slide	Fitted to the slide.
medium — ,, 9 ...		
R.M.L. 80-pr. — 6 ft. parapet	1 per 80-pr. mounted on 5 ft. 6 in. or 6 ft. parapet carriage and slide	
R.M.L. 80-pr. — 5 ft. 6 in. parapet		
Drivers, screw, No. 9	1 per 6·6-in. carriage.	
Gyns, triangle, with appurtenances, light	1 per sub-district or 2 if more than 3 works (in exceptional positions, if more are considered necessary they must be specially applied for)	Available for all ordnance of 7 tons and under. For complete set of stores *see* note § page 222.
Handspikes — common — 7 ft. ...	2 per rear chock carriage	64-prs. only.
	2 ,, sliding ,,	80-prs. only.
	5 ,, travelling ,,	6·6-in. only.
common — 6 ft. ...	2 ,, sliding ,, 5 ,, common or travelling siege carriage	64-prs. and 40-prs.
metal roller, 7 ft. L.S.	2 per wood sliding carriage, and 1 per 64-pr. depression carriage	To run the gun up.

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* The liquid used in cylinders of 6·6-inch H.P. carriages is the same as that described in Regulations for Magazines, &c.

Equipment of R.M.L. 6·6-in., 80-pr. (Converted), 64-pr. (Wrought-iron or Converted), and 40-pr. Guns—Armament of Works—*continued.*

TABLE 5—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14—continued.		
Indicators, pressure, spring, R.M.L. 6·6-in. gun.	1 per 6·6-in. carriage.	
Levers, iron shod, crow, 7 ft.	1 per work for all ordnance	For drawing bolts, &c.
Levers, steel shod, 4 ft. ...	2 per gun on sliding carriage	For traversing the slide.
Levers, pointed, No. 2 ...	2 per gun on carriages with rear eccentrics 3 per gun on Moncrieff carriage	For running up the gun.
Limbers, siege, R.M.L., 6·6-in. gun ...	1 per carriage	For 6·6-in. or 40-pr. siege carriages.
Limbers, siege, R.M.L., 40-pr.		
Limbers, transporting slide L., iron ...	1 for wood, and 1 for iron slide in each district or group of sub-districts (such as Isle of Wight or Portland) where required, and roads are suitable	*See* Axletrees.
Limbers, transporting slide L., medium		
Measures, hydraulic buffer, filling	1 per work where required	For filling the hydraulic buffer.
Pedestals, carriage, garrison, common, R.M.L. 64-pr. 58 cwt.	1 per carriage fitted with elevating screw	To replace elevating screw when removed.
Pedestals, carriage, medium, No. 6, No. 15, No. 22, or No. 23		
Planks, trail, siege	1 per double-decked platform	
Plates, ground, siege	1 set of 3 per carriage ...	For wheels and trail of 6·6-in. siege carriage.
Plates, pivot, double-decked platform	1 per double-decked platform	With under plate and bolts.
Plates, wheel, platform, siege sets		
Platforms, siege double-decked	1 per 40-pr. gun on travelling siege carriage.	
Plugs, pivot, No. 17	1 per double-decked platform.	
Pumps, air, single	1 per 6·6-in. carriage ...	For charging the cylinder of hydro-pneumatic carriages.
Slides, L., medium, No. 8, No. 9, No. 10, No. 11, No. 12, No. 13, No. 14, No. 16, No. 18, No. 19, and No. 20	1 per sliding carriage according to description of work	Moncrieff slides are included with the carriages. For components and spare parts, *see* pages 554 to 561.
Spanners, hydraulic buffer	... ...	*See* Appendix IX, pages 163 to 182.
Spanners, No. 156	1 per double-decked platform	For use when laying double-decked platforms.
Wheels, transporting, No. 85 *or* No. 86	1 pair for each transporting axletree in each district or group of sub-districts (such as Isle of Wight or Portland) where required, and roads are suitable	*See* Axletrees. No. 85 for axletree of iron slide, L; No. 86 for axletree of wood slide, L.

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Equipment of R.M.L. 6·6-in., 80-pr. (Converted), 64-pr. (Wrought-iron or Converted), and 40-pr. Guns—Armament of Works—*continued.*

TABLE 5—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14—continued.		
Wrenches, forked, slide, wood, medium	1 per district	For altering the flanges, &c.; available also for all wood slides, L.
Wrenches, pivot, No. 4 ...	1 per battery	For removing and fixing elevating plates, also for removing fittings of 40-pr. guns.
Woolwich Section, No. 16.		
Plugs, vent	1 per gun	To protect the vent at home stations and in cold climates.*
Spikes, gun, common	2 per gun	For spiking vents permanently.
Spikes, gun, spring, B, C, *or* D†	1 per gun when required	For spiking vents temporarily.
Tools, cleaning and painting ordnance, sets	1 per district	For detail of tools *see* Table A, pages 54 and 55.
Vent-servers‡	2 per gun	To place in the vent while loading; also for plugging the vents of guns mounted in warm climates; the lanyard being removed for this purpose.
Wrench, sight, S.B.	1 per 10 guns, or less per work	For fixing or removing the sight; available also for S.B.
Woolwich Section, No. 17.		
Ordnance, R.M.L., 6·6-in.	As authorised ...	For component and spare parts, implements, and appurtenances, *see* pages 364 to 371.
Ordnance, R.M.L., 80-pr.		
Ordnance, R.M.L., 64-pr. 71 cwt., 64 cwt., or 58 cwt.		
Ordnance, R.M.L., 40-pr.		
Ordnance, R.M.L., wrenches, sight, acorn	1 per 10 guns, or less per work	For fore-sight of 64-pr. 64 cwt. and upwards.
Ordnance, R.M.L., wrenches, sight, muzzle ...	1 per 10 guns, or less per work	For muzzle-sight, 64-pr. 58 cwt. gun.
Prickers, vent, 12-in.	1 per gun	To clear the vent.
Punches, vent, 12-inch ...	1 per 6·6-inch, 80-pr., and 64-pr. gun.	
Punches, vent, 8-inch ...	1 per 40-pr. gun.	
Woolwich Section, No. 18.		
Bags, extractor, projectile, 9-inch	1 per extractor	To cover the head.
Brushes, piasaba, R.M.L., 80-pr.	For 80- and 64-prs. 1 per battery from which practice is carried on	For cleaning out the grooves.
Brushes, piasaba, R.M.L., 6·6-inch	For 6·6-in.	
Brushes, piasaba, R.M.L., 40-pr.	For 40-pr.	
Caps, sponge§, No. 7	1 per 40-pr. sponge	To protect sponge head.
Caps, sponge§, ,, 8	1 per 80- or 64-pr. sponge	
Caps, sponge§, ,, 9	1 per 6·6-in. sponge where necessary	

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* At Halifax the vents will be secured by tow steeped in Field's grease and capped with putty.

† Only to be demanded for guns in advanced or open works.

‡ Whipcord should be demanded separately for making the lanyards.

§ Only to be used for sponges in transit or where stores are damp, or when kept in the open.

Equipment of R.M.L. 6·6-in., 80-pr (Converted), 64-pr. (Wrought-iron or Converted), and 40-pr. Guns—Armament of Works—*continued*.

TABLE 5—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 18—cont.			
Cases, cartridge, No. 4	2 per gun	To bring filled cartridges to gun in action.	
Cordage, hawser, 3 strand, 1½-inch, white, fathoms	7 per 80 or 64-pr. mounted on blocked up slides.	For rammer ropes.	
Cordage, spunyarn, fathoms	1 ,, ,,	For securing rammer ropes to end of stave.	57 Dover 3364
Extractors, projectile, R.M.L., 80 pr. ..	2 per battery	Also for 6·6-in. gun.	
Extractors, projectile, R.M.L., 64 pr. ..	2 per battery.		
Rammers, 80-pr.	1 per gun on other carriage.		71 1 7849
Rammers, 64-pr.			
Rammers, 40-pr.			
Rammers, jointed, 6·6-in gun	1 per gun on Moncrieff, H.P., or medium No. 9 carriages.		
Rammers, jointed, 64-pr. ...			
Ropes, drag, heavy ... pairs	2 per work for all ordnance.		
Selvagees, ordinary	2 per 6·6-in. and 40-pr. guns, and 64-pr. on garrison common and Moncrieff carriages.		57 D'port. 6531
Sponges, R.M.L., 6·6-inch gun	1 per 6·6-inch gun.		
Sponges, R.M.L., 64-pr., wire rope stave, 58 cwt.	1 per 64-pr. 58 cwt. gun on Moncrieff or 6-ft. parapet carriage.		
Sponges, R.M.L., 64-pr., wood stave, 58 cwt.	1 per gun on other carriage	Also for 64-pr., 71 cwt. and 80-pr.	71 1 7849
Sponges, R.M.L., 64-pr,, 64 cwt., wood stave, A and B chambers	1 per gun.		
Sponges, R.M.L., 64-pr,, 64 cwt., wood stave, C and D chambers	1 per gun.		
Sponges, R.M.L., 40-pr., wood stave	1 per 40-pr. gun.		
Sponges, R.M.L., 64 pr., wire rope stave, A and B chambers	1 per gun.		
Sponges, R.M.L., 64 pr., wire rope stave, C and D chambers	1 per gun.		
Staves. worm, wadhook ...	1 per 6·6-in. gun.		
Tackles, gun, 2½-inch tarred rope*	2 per 2 or less slides, L....	For running the gun back at drill.	
Tackles, hauling down, R.M.L., 64-pr. gun.	1 per gun mounted on blocked up slides	For depressing the gun.	
Tackles, luff, 14 fathoms ...	2 per 2 or less Moncrieff carriages, and 1 per 2 or less 64-pr. depression carriages	For running the gun back at drill.	
Tackles, whip upon whip ...	1 per 2 or less common standing carriages		
Tampeons, R.M.L.†, 6·6-inch	1 per 6·6-in. gun	To protect the bore.	
Tampeons, R.M.L.†, 80-pr.	1 per 80 or 64-pr. gun ...		
Tampeons, R.M.L.†, 40-pr.	1 per 40-pr. gun		
Wadhooks, R.M.L., 7-in. 6½ tons.	for 64-pr., 64 and 71-cwt. 1 per every 3 guns in a work‡	For drawing the charge and searching the bore.	
Wadhooks, R.M.L., 40-pr. ...			
Wadhooks, S.B. 8-in. gun ...	for 80-pr. and 64-pr.,58-cwt.		
Worms, wadhook, No. 3 ...	1 per 6·6-in. gun.		

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* Also available for traversing, when necessary, the 64-pr. R.M.L. guns on 6 ft. parapet (blocked up) slides other than those on C pivot.

† A junk wad should be demanded for, and attached to each tampeon.

‡ If additional wadhooks are required for drill, they must be collected from other guns.

Equipment of R.M.L. 6·6-in., 80-pr. (Converted), 64-pr. (Wrought-iron or Converted), and 40-pr. Guns—Armament of Works—*continued.*

TABLE 5—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 19.		
Scotches, medium	As required.	
Woolwich Section, No. 21.		
Cartridges, R.M.L., filled, serge *or* silk cloth, 6·6-inch, $12\frac{1}{2}$ lb. P.	2 per round of ammunition	
Cartridges, 80-pr., 12 lb. P.	1	
Cartridges, 64-pr., 10 lb. R.L.G.^{4}	1	Full, Mark III. gun only.
Cartridges, 64-pr., $8\frac{1}{4}$,, ,,	1	Full, 71 and 58 cwt., and reduced, Mark III. guns.
Cartridges, 64-pr., $6\frac{1}{2}$,, ,,	1	Full, Mark I. and II. guns, and reduced, 71 and 58 cwt. guns.
Cartridges, 64-pr., 8 ,, R.L.G.^{2}	1	Mark III. gun.
Cartridges, 64-pr., 6 ,, ,,	1	64-pr. guns, except Mark III.
Cartridges, 40-pr., 7 ,, ,,	1	
Cartridges, 40-pr., $6\frac{3}{4}$,, R.L.G.^{4}	1	
Woolwich Section, No. 22.		
Boxes, tube, garrison	1 per gun	For friction tubes.
Fuzes† percussion, direct action, No. 3‡	1 per common shell	Except 40-pr.
Fuzes† percussion, R.L., No 7	1 ,, ,, ,,	For 40-pr. gun.
Fuzes† time, 15 seconds, M.L., No. 41	1 ,, Shrapnel shell	80-pr. studded, and 64-pr.
Fuzes† time, 15 seconds, with detonator, No. 43	1 ,, ,, ,,	6·6-in., 80-pr. studless, and 40-pr.
Horns, powder§	1 per battery, for all ordnance	For priming guns if required.
57 Gen. No. 6321 **Implements,** fuze, shell, and cartridge, Bits, hookborer	6 per gun.	
Implements, Cylinders, common	1 ,,	
Implements, Extractors, fuze, small, rifled	1 ,,	
Implements, Handles, hookborer	1 ,,	
Implements, Hooks, hookborer	1 ,,	
Implements, Keys, fuze, universal‖	1 ,,	
Lanyards, friction tube, garrison, No. 2	3 per gun on Moncrieff carriages.	
Lanyards, friction tube, garrison, ,, 3	3 per gun on sliding and common carriages.	
Lanyards, friction tube, siege, No. 1	3 per 40-pr. gun on siege carriage.	
§3807 L. of C. **Primers,** fuze, percussion, R.L., No. 7	1 per fuze, percussion, R.L., No. 7	
Straps, tube box, long	1 per tube box.	
Tubes, friction, copper, solid drawn with ball	1 per round	Issued in cylinders containing 25 each.

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† In cylinders of 5 each. The designation number is shown on the label of the cylinder or other package in which the fuze is packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

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‡ Mark III for sea fronts, and Marks I* and II for land fronts.

§ Contains $1\frac{1}{4}$ lb. of gunpowder, which will be supplied as required.

‖ Keys fuze, and plug G.S. now on charge will continue to be used until worn out.

Equipment of R.M.L. 6·6-in., 80-pr. (Converted), 64-pr. (Wrought-iron or Converted), and 40-pr. Guns—Armament of Works—*continued.*

TABLE 5—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 24.		
Bearers, shot, R.M.L., 80-pr....	1 per 6·6-in. and 80-pr. guns	
Gas checks, R.M.L., 6·6-inch	1 per shell and Palliser shot	
Gas checks, R.M.L., 80-pr. ...	1 per studless shell ...	
Gas checks, R.M.L., 40-pr. ...	1 per shell	
Gauges, shell, ring, R.M.L., body and gas checks, 6·6-inch	1 per district.	
Gauges, shell, ring, R.M.L., body and gas checks, 80-pr. ...		
Gauges, shell, ring, R.M.L., body and studs, 80-pr. ...		
Gauges, shell, ring, R.M.L., body and studs, 64-pr. ...		
Gauges, shell, ring, R.M.L., body and studs, 40-pr. ...		
Implements, fuze, shell, and cartridge, Spanners, gas check plug, 40-pr.	1 per 40-pr. gun.	
Plugs, fuze-hole, G.S., without loop	1 per shell.	
Shells, R.M.L., filled*, common, 6·6-in. ...	78 per cent.	
Shells, R.M.L., filled*, common, 80-pr. ...	60 ,,	
Shells, R.M.L., filled*, common, 64-pr. ...	60 ,,	
Shells, R.M.L., filled*, common, 40-pr. ...	60 ,,	
Shells, R.M.L., filled*, Shrapnel, 6·6-in. ...	10 ,,	
Shells, R.M.L., filled*, Shrapnel, 80-pr. ...	30 ,,	
Shells, R.M.L., filled*, Shrapnel, 64-pr. ...	30 ,,	
Shells, R.M.L., filled*, Shrapnel, 40-pr. ...	36 ,,	
Shot, R.M.L., case, 6·6-inch... ...	2 ,,	
Shot, R.M.L., case, 80-pr.	10 ,, ...	Also for 64-pr.
Shot, R.M.L., case, 40-pr.	4 ,,	
Shot, R.M.L., Palliser, 6·6-inch ...	10 ,,	
Wads, wedge, 8-inch	1 per round, except case shot; for 80-pr. and 64-pr.	Placed in front of the projectile to prevent its shifting.
Woolwich Section, No. 25.		
Lamps, fighting†	2 per casemate.	
Woolwich Section, No. 27.		
Flags, red, 12 ft. × 6 ft. ...	1 per practice battery.	*See* para. 74.
Flags, musketry instruction, red, 4 ft. × 3 ft.	As required for use by sentries posted on flanks of battery, during practice	In compliance with approved bye-laws. *See* para. 74.
Woolwich Section, No. 29.		
Clinometers, large‡	1 per work...	For giving quadrant elevation, and measuring vertical angles.
Tapes, measuring, 50 feet ...	1 per sub-district... ...	For measuring cordage, &c.

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* Supplied with fuze-hole plugs, which, however, are separately shown, and are to be separately charged and accounted for.

† Oil and wick for these are supplied by Army Service Corps, as required.

‡ Stations having "Clinometer, Watkin," will retain them in use until they become unserviceable, when they will be replaced by the "Clinometer, large."

EQUIPMENT OF R.B.L. 7-INCH, 40-PR., AND 20-PR. GUNS.

Armament of Works.

TABLE 6.	Proportions.	Remarks.
Woolwich Section, No. 4.		
Boxes, grease, 3 lb.	1 to 3 guns	Suitable for all rifled guns.
Carts, trench	1 per sub-district ...	For moving projectiles.
Drags, gun, 5 tons	1 per district	Suitable for all ordnance up to 5 tons. *See* note †, page 220.
Limbers, sling wagon, 6 tons ...	1 per district, if necessary	Available for all light ordnance. *See* note †, page 220.
Wagons, sling, 6 tons		
Woolwich Section, No. 5.		
Brushes, water, carriage	2 per gun...	1 for cleaning the sponge, and 1 for cleaning the projectiles.
Woolwich Section, No. 7.		
Chests, tool, filled { No. 3 J	As authorised, *vide* para. 182.	
Chests, tool, filled { ,, 11 E... ...	1 per work.	
38407 Equip. 1747 **Boards**, range, fuze scale	1 per 2 guns of same nature, or 1 per gun where mounted singly	To be prepared locally.*
Cans, oil, lubricating, smiths† ...	1 per 2 guns or under, but not exceeding 5 per work.	Globular can, with fine spout.
Files, second cut { safe edge, 12-inch ...	1 per 2 7-inch guns per work.	For filing nose of vent piece.
Files, second cut { half round, 8 ,, ...	1 per 40 and 20-pr. ...	
Hammers, claw, 28-oz.	2 per battery for all ordnance.	
Punches, R.B.L. guns, steel { 13-inch ...	1 per 7-inch and 40-pr. gun	For removing keep-pins, &c.
Punches, R.B.L. guns, steel { 6 ,, ...	1 per 20-pr. ,, ...	
Spanners, McMahon, 15-inch ...	1 per battery for guns on standing and sliding carriages, 2 per battery for guns on travelling siege carriages	For tightening nuts, &c.
Wrenches, knock up, G.S.	1 per work, 2 if over 10 slides	For tightening nuts, &c. Available for all natures of slides.
Woolwich Section, No. 10.		
Jacks, lifting, screw, Clerk's... ...	2 per work	For travelling siege carriages.
Woolwich Section, No. 11.		
Chalk, white ... ... lbs.	2 per gun...	Annual supply.
Oil, mineral ... ... gallons	Sufficient to fill the hydraulic buffer.	
Woolwich Section, No. 13.		
Carriages, field, R.B.L. 20-pr. ...	1 per gun.	
Limbers, field, R.B.L. 20-pr. carriage	1 per carriage.	

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* The fuze scale is either painted on the board, or printed on paper and attached to the board.

† When these cans become unserviceable they will be replaced by "Can, lubricating, No. 9."

Equipment of R.B.L. 7-in., 40-pr., and 20-pr. Guns—Armament of Works—*continued.*

TABLE 6—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14.		
Axletrees, transporting, slide: iron, R.M.L. 7-in. wood, R.B.L. 7-in. 40-pr.	1 for each nature as required for each district or group of sub-districts (such as Isle of Wight or Portland), where wanted, and roads are suitable	A further supply will be allowed, when necessary, on special representation. These articles with their limbers and wheels are also available for 80 or 64-pr. and S B.
Buckets, sponge, garrison	1 per 2 guns; for guns on Moncrieff carriages, 1 per gun	To hold water for damping the sponge.
Carriages, garrison, R.B.L.: 7-inch Moncrieff ... 40-pr., common: wood, converted, non-recoil sliding medium (Nos. 1, 2, 3, 4, 5, 15,16, 17, 18, 19, or 20) siege, R.B.L. 40 pr., 6-ft. parapet	1 per gun according to description of mounting approved	For component and spare parts, *see* pages 526 to 545.
Cases, pricker, vent, siege R.B.L. 40-pr., 6-ft. parapet	1 per 40-pr., 6-ft. parapet carriage.*	
Compressors, land service, R.B.L. 7-inch†	As required	For 7-inch R.B.L. guns only.
Gyns, triangle, with appurtenances, light, tubular	1 per sub-district, or 2 if more than 3 works (in exceptional positions, if more are considered necessary, they must be specially applied for)	Available for all ordnance of 7 tons and under. For complete set of stores, *see* note §, page 222.
Handspikes, common, 7 feet ...	2 per 7-inch gun... ...	On rear chock and sliding carriages.
common, 6 feet ...	2 per 40-pr. or 20-pr. ...	On sliding carriage.
	5 per 40-pr.	On wood and iron standing carriages and travelling siege carriages.
metal roller, 7 feet, L.S.	2 per No. 15 sliding carriage when not fitted with special running up gear, 2 per No. 16 and 20 sliding carriage	To run the gun up or back.
Levers, iron-shod, crow, 7 feet ...	1 per work for all ordnance	To draw bolts out of slides, &c.
steel-shod, 4 feet	2 per gun on sliding carriage	For traversing the slide.
pointed, No. 2	2 per gun on carriages with rear eccentrics	To run the gun up or back.
pointed, No. 4	2 per 7-inch gun on Moncrieff carriages	
8 feet	1 per work	For travelling siege carriages.

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* Issued with the carriage.

† These will be kept in R.A. Store when not in use.

‡ To be kept in ordnance store, or Royal Artillery Charge for Army Ordnance Department, as best suits the requirements of each locality. To be demanded and laid for service by the Royal Engineers, but for instructional purposes of Royal Artillery may be drawn and laid by them.

Equipment of R.B.L. 7-in., 40-pr., and 20-pr. Guns—Armament of Works—*continued.*

TABLE 6—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14—continued.		
Limbers, siege, R.B.L. 40-pr., iron	1 for every 3 40-pr. guns or less	For travelling siege carriages.
Limbers, transporting slide, L. iron medium	1 for each nature as required for each district or group of sub-districts (such as Isle of Wight or Portland), where wanted, and roads are suitable	*See* Axletrees.
Measures, hydraulic buffer, filling...	1 per work where required	For filling the hydraulic buffers.
Pedestals, carriage, garrison, common, R.B.L. 40-pr. medium (Nos. 15, 16, 19, and 20)	1 per carriage, fitted with elevating screw	To replace elevating screw when removed.
Planks, trail, siege	1 per double-decked platform.	
Plates, pivot, double-decked platform wheel, platform, siege sets	1 per double-decked platform	With under plates and bolts.
Platforms, siege, double-decked ...	1 per 40-pr. on travelling siege carriage.	
Plugs, pivot, No. 17	1 per double-decked platform.	
Rollers, shifting, No. 2†	1 per 40-pr., 6-feet parapet, siege carriage.	
Slides, L. medium (Nos. 1, 2, 3, 4, 5, 11, 12, 13, 14, 15, 16, and 17)	According to description of works	Moncrieff slides are included with the carriages. For component and spare parts, *see* pages 554 to 561.
Spanners, hydraulic buffer	... ...	*See* Appendix IX, pages 168 to 182.
Spanners, No. 156	1 per double-decked platform	For use when laying double-decked platforms.
Wheels, transporting No. 85 No. 86	1 pair for each nature as required for each district, or group of sub-districts (such as Isle of Wight or Portland), where wanted, and roads are suitable	No. 85 or No. 86, according to the nature of the axletree.
Wrenches, forked, slide, wood, medium	1 per sub-district ...	For altering the flanges, &c. Suitable for all wood slides, L.
Wrenches, pivot, No. 4	1 per work for 7-inch R.B.L. guns fitted with elevating arcs, or mounted on counterweight carriage	For fixing or removing screws, pivots, &c.
Woolwich Section, No. 16.		
Ordnance, R.B.L. 7-inch, 82 cwt.... .. 40-pr., 35 cwt. ... ... 40-pr., side closing ... 20-pr., 16-cwt.	As authorised	For components, special implements, appurtenances, &c., *see* pages 372 to 375.

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† Issued with the carriage.

Equipment of R.B.L. 7-in., 40-pr., and 20-pr. Guns—Armament of Works—*continued.*

TABLE 6—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 16—continued.		
Spikes, gun, common	2 per gun	For spiking vents permanently.
Tools, painting and lacquering rifled ordnance sets	1 per district	For detail of tools, see Table A, pages 54 and 55.
Vent-servers*	2 per 40-pr. side closing gun	To place in the vent while loading.
Woolwich Section, No. 17.		
Prickers, vent, 12-inch	2 per 40-pr. side closing gun	To clear the vent.
Punches, vent, 8-inch	1 per 40-pr. side closing gun	
Woolwich Section, No. 18.		
Brushes. piasaba, R.B.L. 7-inch 40-pr. 20-pr.	1 per work for each nature from which practice is carried on.	For cleaning out the grooves.
Caps, sponge† No. 5 ,, 7 ,, 9	20-pr. 40 ,, inch } 1 per sponge where necessary	To protect sponge head.
Cases, cartridge No. 2, 7-in. ,, 4, 40-pr. ,, 5, 20-pr.	2 per gun.	To bring filled cartridges to gun in action.
Coatings, sponge, R.B.L. 7-inch 40-pr. 20-pr.	1 per 100 rounds of ammunition	Spare, for sponge head.
Covers, vent, R.B.L. 7-inch 40-pr. 40-pr. side closing 20 pr.	1 per gun	To protect vent slots and sights.
Rammers, R.B.L. 7-inch 40-pr., 5 feet 20-pr.	1 per gun.	
Ropes, drag, heavy pairs	2 per work for all ordnance, and 2 per limber for guns on travelling siege carriages	
Slings, rope, 6-inch, 11 feet long	2 per work for guns on travelling siege carriages	For shifting guns.
Sponges, R.B.L. 7-inch 40-pr. 20-pr.	1 per gun	
Tackles gun 3-inch white rope	2 per 2 or less 7-inch guns on Moncrieff carriages	For running the gun back, &c.
Tackles gun 2½-inch tarred rope	2 per 2 or less number of slides L, 7 inch R.B.L.	For running back.
Tackles luff, 14 fathoms	2 per work, for slides if not already provided for other guns therein, and 4 per work for guns on travelling siege carriages	To meet contingencies. For shifting the guns.

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* Whip cord should be demanded separately for making the lanyards.

† Only to be used for sponges in transit, or where stores are damp, or when kept in the open.

Equipment of R.B.L. 7-in., 40-pr., and 20-pr. Guns—Armament of Works—*continued.*

TABLE 6—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 18—continued.		
Tampeons, R.B.L., 7-inch, breech... ...	1 per gun	To protect the bore.
Tampeons, R.B.L., 7-inch, muzzle ...		
Tampeons, R.B.L., 40-pr., breech... ...		
Tampeons, R.B.L., 40-pr., muzzle ...		
Tampeons, R.B.L., 20-pr., breech... ...		
Tampeons, R.B.L., 20-pr., muzzle ...		
Woolwich Section, No. 19.		
Scotches, medium	As required	For scotching up the ends of piles of projectiles.
Woolwich Section, No. 20.		
Lubricators, service, 7-inch...	1 per round of ammunition	Issued separate with cartridges.
Lubricators, service, 40-pr....		
Cartridges, R.B.L., filled, serge, 7-inch, 11-lb.	1 per round of ammunition	
Cartridges, R.B.L., filled, serge, 7-inch, 10-lb.		
Cartridges, R.B.L., filled, serge, 40-pr., 5-lb. ...		
Cartridges, R.B.L., filled, serge, 20-pr., 2½-lb....		
Woolwich Section, No. 22.		
Bits, vent, Armstrong...	1 to 4 guns with vent pieces per work	Removes irregularities in the vent.
Boxes, tube, garrison	1 per gun	For friction tubes.
Cups, R.B.L. guns †, 40-pr., side closing ...	1 per round	
Cups, R.B.L. guns †, 7-inch	1 per round	
Cups, R.B.L. guns †, 20-pr.	... ...	With practice ammunition only.
Cups, R.B.L. guns †, 40-pr.	... ...	
Extractors, tin cup, cross-head	1 per 40-pr. side closing gun	
Extractors, tin cup, hook	1 per gun, except 40-pr. side closing	Only for practice guns in the case of 40-pr.
Fuzes ‡, percussion §, B.L., plain, No. 2 ...	90 per 100 rounds	20-pr. only.
Fuzes ‡, percussion §, direct action, No. 3‖ ...	90	7-inch.
Fuzes ‡, percussion §, R.L., No. 7	90	40-pr. only.
Fuzes ‡, time, Armstrong, E, No. 22	30	20-pr. only.
Fuzes ‡, time, 15 seconds, with detonator, No. 43 ...	20	7-inch and 40-pr.

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† For practice, cups are supplied at the rate of 1 per 10 rounds, *or less*, according to requirements for 7-inch, and 1 per 5 rounds for 40-pr., 40-pr. side closing, and 20-pr.

‡ In cylinders of 5 each, except time, Armstrong, E, No. 22, which are issued in cylinders of 1 each. The designation number is shown on the label of the cylinder or other package in which the fuze is packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

§ The 7-inch and 40-pr. will be supplied with direct-action fuzes as the present equipment of G.S. and R.L. fuzes becomes used up.

‖ Mark III for sea fronts, and Mark I* and II for land fronts.

Equipment of R.B.L. 7-in., 40-pr., and 20-pr. Guns—Armament of Works—*continued.*

TABLE 6—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 22— continued.			
Implements, fuze and cartridge: Bits, hookborer ...	6 per gun.		57 / Gen. No. / 6321
Cylinders, common...	1 ,, ,,		
Handles, hookborer	1 ,, ,,		
Hooks, hookborer ...	1 ,, ,,		
Keys, fuze, universal*	1 ,, ,, ...	2 per gun required when the Mark III direct action fuzes are used.	
Lanyards friction tube: field	3 per 20-pr. gun on field carriages.		
garrison No. 2 ...	3 per gun on Moncrieff carriages.		
garrison No. 3 ...	3 per gun on sliding and common carriages.		
siege, No. 1	3 per 40-pr. gun on siege carriages.		
Plugs, wood, covered with serge ...	1 per 20 pr. segment shell.		
Pockets: tin cup	1 per gun	Only for practice guns in the case of 40-prs. with vent pieces. For tin cups.	
tube, land service ...	1 per gun, except 40-pr. side closing and 20-pr.	For vent piece primers.	
Primers, fuze percussion, R.L., No. 7	1 per fuze percussion, R.L., No. 7.		§8807 L. of C.
Straps, tube box, long...	1 per tube pocket 1 ,, tin cup pocket 1 ,, tube box		
Tubes, friction, copper: solid drawn	1 per round, except for 40-pr. side closing	Issued in cylinders containing 25.	
solid drawn, with ball ...	1 per round for 40-pr. side closing.		
Woolwich Section, No. 24.			
Bearers, shot, R.B.L., 7-inch ...	2 per 7-inch gun... ...	For carrying projectiles.	
Gauges, shell, ring, R.B.L., high: 7-inch 40-pr. 20-pr.	1 per battery for each calibre	For gauging the bases of the projectiles.	
Plugs, fuze-hole: G.S., without loop	1 per 7-inch and 40-pr. shell		
R.B.L.	1 per 20-pr. shell		
Shells, R.B.L., filled†: common: 7-inch ... ... 40-pr. ... ... 20-pr.	60 per cent.		
segment: 7-inch ... ... 40-pr. ... ... 20-pr.	30 per cent.		
Shot, R.B.L., case: 7-inch ... ... 40-pr. ... ... 20-pr.	10 per cent.		
Wads, fuze-hole: G.S.	1 per empty shell, 7-inch and 40-pr.		
R.B.L. sockets ...	1 per empty common shell, 20-pr. only		
Woolwich Section, No. 25.			
Lamps, fighting*	2 per casemate.		

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* Keys, fuze and plug G.S., on charge, will continue to be used until worn out.

† Supplied with fuze-hole plugs which, however, are separately shown, and are to be separately charged and accounted for.

Equipment of R.B.L. 7-in., 40-pr., and 20-pr. Guns—Armament of Works—*continued.*

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TABLE 6—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 27.		
Flags, red, 12 feet × 6 feet	1 per practice battery ...	*See* para. 74.
Flags, musketry instruction, red, 4 ft. × 3 ft.	As required for use by sentries posted on flanks of battery during practice	In compliance with approved Bye-laws, *see* para. 74.
Woolwich Section, No. 29.		
Tapes, measuring 50 feet	1 per sub-district ...	For measuring cordage, &c.

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* Oil and wick for these are supplied by Army Service Corps, as required.

EQUIPMENT OF R.M.L. HOWITZERS, 8-INCH, 70 AND 46-CWT., 6·6-INCH, AND 6·3-INCH.

Armament of Works.

TABLE 7.	Proportions.	Remarks.
Woolwich Section, No. 2.		
Colours, camp	2 per howitzer	For laying out the line of fire.
Woolwich Section, No. 4.		
Carts, trench	1 per sub-district ...	For moving projectiles.
Drugs, gun, 5 tons	1 per district	Suitable for all ordnance up to 5 tons. *See* footnote †, page 220.
Limbers, sling wagon, 6 tons ...	1 per district if necessary	Available for all light ordnance. *See* footnote †, page 220.
Wagons, sling, 6 tons...		
Woolwich Section, No. 5.		
Brushes, water, carriage	2 per howitzer	1 for cleaning the sponge, and 1 for projectiles in emplacement.
Woolwich Section, No. 7.		
Chests, tool, filled No. 3 D	As authorised by para. 182	For repair of carriages, &c., *see* Appendix VII. pp. 134, 142, and 147 for details.
Chests, tool, filled ,, 3 E	1 per district	
Chests, tool, filled ,, 11 E ...	I per work	
Boards, range, fuze scale	1 per two guns of same nature, or 1 per gun where mounted singly	To be prepared locally.*

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* The fuze scale is either painted on the board, or printed on paper and attached to the board.

Equipment of R.M.L. Howitzers, 8-in., 70 and 46-cwt., 6·6-in., and 6·3-in.—Armament of Works—*continued.*

TABLE 7—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 7—contd.		
Cans, oil, lubricating, smiths* ...	1 per 6 howitzers or less, fitted with hydraulic buffers	Globular can, with fine spout.
Hammers, claw, 28-oz.	2 per battery for all ordnance	For general use.
Spanners, McMahon, 15-inch ...	1 per battery for all ordnance	For tightening nuts, &c.
Woolwich Section, No. 10.		
Jacks, lifting, screw, Clerk's ...	2 per work	For general use.
Woolwich Section, No. 11.		
Chalk, white ... ... lb.	2 per howitzer	Annual supply.
Oil, mineral ... ... gallons	Sufficient to fill the hydraulic buffer	Directions for filling are on a brass plate attached to the buffer.
Woolwich Section, No. 14.		
Axletrees, transporting, bed, howitzer, R.M.L.	1 per work, with howitzer beds	*See* Limbers and Wheels.
Beds, howitzer, R.M.L.† 8-inch ...	1 per 8-inch 46-cwt. howitzer	Where howitzers are not mounted on carriages.
Beds, howitzer, R.M.L.† 6·6-inch ...	1 per 6·6-inch howitzer...	
Beds, howitzer, R.M.L.† 6·3-inch ...	1 per 6·3-inch ,, ...	
Buckets, sponge, garrison	1 per howitzer	To hold water for damping the sponge.
Carriages, siege, R.M.L. 8-inch 70-cwt. howitzer	1 per howitzer ...	Where howitzers are not mounted on beds. For component and spare parts, *see* pages 526 to 545.
Carriages, siege, R.M.L. 8-inch 46-cwt. howitzer		
Carriages, siege, R.M.L. 6·6-inch howitzer ...		
Carriages, siege, R.M.L. 6·3-inch ,, ...		
Gyns, triangle, with appurtenances, light	1 per sub-district, or 2 if more than 3 works (in exceptional positions); if more are considered necessary, they must be specially applied for	Available for all ordnance of 7 tons and under. For complete set of stores *see* note §, page 222.
Handspikes, common, 6 feet ...	5 per carriage. 2 per bed.	
Levers, iron-shod, crow, 7 feet ...	1 per work for all ordnance	For drawing bolts, &c.
Limbers siege, R.M.L. howitzer, L.S. armaments 8-inch 70-cwt.	1 per howitzer.	
Limbers siege, R.M.L. howitzer, L.S. armaments 8-inch 46-cwt.		
Limbers siege, R.M.L. howitzer, L.S. armaments 6·6-inch		
Limbers siege, R.M.L. howitzer, L.S. armaments 6·3-inch		
Limbers transporting, bed, howitzer, R.M.L.	1 per work with howitzer beds	*See* Axletrees.
Measures, hydraulic buffer, filling...	1 per work where required	For filling the hydraulic buffer.

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* When these cans become unserviceable they will be replaced by "Can lubricating No. 9."

† These can be transported by means of the axletree, limber, and wheels.

Equipment of R.M.L. Howitzers, 8-in., 70 and 46-cwt., 6·6-in., and 6·3-in.—Armament of Works—*continued.*

TABLE 7—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 14—contd.		
Planks, trail, siege	1 per double-decked platform.	
Plates, pivot, double-decked platform wheel platform, siege sets	1 per double-decked platform	With under plates and bolts.
Platforms, ground, R.M.L., howitzer bed	1 per howitzer bed.	
siege, double-decked	1 per howitzer, with hydraulic buffer.	
Plugs, pivot, No. 17	1 per double-decked platform.	
Spanners, hydraulic buffer	... ...	*See* Appendix IX, pages 168 to 182.
No. 156	1 per double decked platform	For use when laying double-decked platform
57 Gen. No. 6465 **Wagons**, platform, gun, R.M.L., 6·6 inch	1 per district	Suitable for stores and 8-inch howitzer.
Wheels, 1st class B, No. 6	2 per work with howitzer beds	For transporting R.M.L., howitzer beds. (*See* Axletrees.)
Wrenches forked, platform, wood, siege, ground	1 per work with howitzer beds	For use with the siege platforms.
pivot, No. 4	1 per battery.	
Woolwich Section, No. 16.		
Plugs, vent	1 per howitzer	To protect the vent at home stations and in cold climates.†
Plummets, howitzer‡	1 per howitzer	For laying.
Spikes, gun, common	2 per howitzer	For spiking vents permanently.
spring, C *or* D§... ...	1 per howitzer where required.	For spiking vents temporarily.
Tools, painting and lacquering rifled ordnance sets	1 per district	For detail of tools, *see* Table A, pages 54 and 55.
Vent-servers‖	2 per howitzer	To place in the vent while loading; also for plugging the vents of guns mounted in warm climates, the lanyard being removed for this purpose.
Wrenches, sight, S.B....	1 per 10 or less number of 8-inch 46-cwt., or 6·3-inch howitzers when centre-sighted per work	For fixing or removing the muzzle sights.

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* **Guides**, wheel, central pivot, howitzer	1	Specially allowed for Hong Kong.
Plates trail	1	
wheel, platform siege	2	
Plugs, pivot, No. 13	1	

† At Halifax the vents will be secured by tow steeped in Field's grease and capped with putty.

‡ When existing stock is used up, "plummets, laying," will be issued.

§ Only to be demanded for howitzers in advanced or exposed works.

‖ Whipcord should be demanded separately for making the lanyards.

Equipment of R.M.L. Howitzers, 8-in., 70 and 46-cwt., 6·6-in., and 6·3-inch—Armament of Works—*continued.*

TABLE 7—*continued.*		Proportions.	Remarks.
Woolwich Section, No. 17.			
Ordnance. R.M.L.	8-inch howitzer 70-cwt.	As authorised	For components, special implements, appurtenances, etc., *see* pages 364 to 371.
	8-inch howitzer 46-cwt.		
	6·6-inch howitzer ...		
	6·3-inch ,, ...		
Prickers, vent	12 inch	1 per 6·6in and 6·3-inch howitzer	To clear the vent.
	17 ,, ...	1 per 8-inch 70-cwt. and 46-cwt. howitzer	
Punches, vent	12-inch	1 per 8-inch 46-cwt. howitzer	
	8-inch	1 per howitzer, except 8-in. 46-cwt.	
Woolwich Section, No. 18.			
Bags, extractor, projectile, 9-inch ...		1 per extractor	To cover the head.
Brushes, piasaba, R.M.L.	8-inch 70-cwt. howitzer	1 per battery for each nature from which practice is carried on	For cleaning out the grooves.
	8-inch 46-cwt. ,,		
	6·6-inch		
	6·3-inch howitzer ...		
Caps, sponge*	No. 8	6·3-inch 1 per sponge, where necessary	To protect sponge head.
	,, 9	6·6-inch	
	,, 10	8-inch	
Cases, cartridge	No. 2	8-inch ... 2 per howitzer	To bring up filled cartridges.
	,, 4	6·6-inch and 6·3-inch... 2 per howitzer	
Extractors, projectile, R.M.L.	8-inch gun	... ...	For the 8-inch 70-cwt. howitzer.
	8-inch 46-cwt. howitzer	1 per battery for each nature of howitzer	
	6·6-inch howitzer ...		
	6·3-inch ,, ...		
Rammers, R.M.L.	8-inch howitzer 70-cwt. ...	1 per howitzer.†	
	8-inch howitzer 46-cwt. ...		
	6·6-inch howitzer ...		
Ropes, drag, heavy ... ... pairs		2 per work for all ordnance.	
Sponges, R.M.L.	8-inch 70-cwt. howitzer	1 per howitzer.	
	8-inch 46-cwt. ,,		
	6·6-inch howitzer... ...		
	6·3-inch howitzer... ...		
Tackles, luff, 14 fathoms		2 per two 8-in. howitzers, 2 per work for 6·6-inch and 6·3-inch howitzers.	
Tampeons, R.M.L.	8-inch 70 cwt. howitzer	1 per howitzer	To protect the bore.
	8-inch 46-cwt. ,,		
	6·6-inch		
	6·3-inch howitzer ...		
Wadhooks. R.M.L., 8-inch	70-cwt.	1 per three 8-inch howitzers, 70-cwt. per work‡	For drawing the charge and searching the bore.
	46-cwt.	1 per three howitzers 8-inch 46-cwt. 6·6-inch or 6·3-inch per work	

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* Only to be used for guns in transit or where stores are damp, or when kept in the open.

† Rammers for 6·3-inch howitzers are on the sponge staves.

‡ If additional wadhooks are required for drill they must be collected from other howitzers.

Equipment of R.M.L. Howitzers, 8-in., 70 and 46-cwt., 6·6-in., and 6·3-inch—Armament of Works—*continued.*

TABLE 7—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 21.		
Cartridges, R.M.L., filled, silk cloth, 8-inch, 11½ lb. R.L.G.²	(70 cwt.)	An equal number of each charge per howitzer will be maintained.
10 ,, ,,	(46 ,,) 1 per round of ammunition	
7 ,, ,,	(70 ,,)	
5 ,, ,,	(46 ,,)	
3½ ,, ,,	(70 ,,)	
2½ ,, ,,	(46 ,,)	
6·6-inch, 5 ,, ,,	... ...	
3 ,, ,,	... ...	
2 ,, ,,	... ...	
6·3-inch*, 4¼ lb. R.L.G.	... ...	
2½ ,, ,, ...	... ...	
Woolwich Section, No. 22.		
Boxes, tube, garrison	1 per howitzer	For copper friction tubes
Fuzes†, percussion, direct-action, No. 3‡	1 per common shell.	
delay, No. 10	50 per cent. for common shell	For high angle fire.
time, sensitive§, long, No. 23 middle, No. 24	50 per cent. of each for Shrapnel shell.	
15 seconds, M.L. special priming, No. 42... ...	1 per star shell.	
Horns, powder‖	1 per battery for all ordnance	For priming guns, if required.
57 Gen. No. 6321 **Implements,** fuze, shell and cartridge, Bits, hook-borer ...	6 per howitzer.	
Cylinders, common...	1 ,, ,,	
Handles, hook-borer	1 ,, ,,	
Hooks, hook-borer...	1 ,, ,,	
Keys, fuze and plug, G.S.¶	2 ,, ,, ...	The second key required when Mark III direct-action fuzes are used.
Lanyards, friction tube, siege, No. 1	3 per howitzer.	
Straps, tube box, long...	1 per tube box.	
Tubes, friction, copper, solid drawn with ball	1 per round	Issued in cylinders containing 25 each.
Woolwich Section, No. 24.		
Bearers, shot, R.M.L., 8-inch howitzer ...	1 per 8-inch howitzer ...	For carrying projectiles.
6·6-inch ,, ...	1 per 6·6-inch howitzer...	
Gas checks, R.M.L., 8-inch howitzer, 70 cwt. ...	1 per shell	For fixing to the base of the projectile.
46 ,, ...		
6·6-inch		
6·3-inch		
Gauges, shell ring, R.M.L., body and gas-checks, 8-inch howitzer, 70-cwt.	1 per district for each calibre.	
6·6-inch ...		
6·3-inch ...		
body and studs, 8-inch howitzer, 46 cwt.		
low over studs, 8 inch		

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* Existing charges of 4-lb. and 2-lb R.L.G.², serge or silk cloth will be used up.

† The designation number is shown on the label of the cylinder or other package in which the fuze is packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

‡ Mark III for sea fronts, and Mark I* and II for land fronts.

§ The 15 seconds with detonators, at present on charge with each piece, will be retained and used up. 57 Gibraltar 6888

‖ Contains 1½ lbs. of gunpowder, which will be supplied as required.

¶ Will be replaced by the "Key, fuze, universal," as the present store becomes used up.

Equipment of R.M.L. Howitzers, 8-in., 70 and 46-cwt., 6·6-in., and 6·3-inch—Armament of Works—*continued.*

TABLE 7—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 21—continued.		
Plugs, fuze-hole, G.S., without loop	1 per shell.	
Shells, R.M.L., filled*, common, 8-inch howitzer, 70-cwt.	60 Per 100 rounds.	
Shells, R.M.L., filled*, common, 8-inch howitzer, 46-cwt		
Shells, R.M.L., filled*, common, 6·6-inch	60	
Shells, R.M.L., filled*, common, 6·3-inch howitzer	80	
Shells, R.M.L., filled*, Shrapnel, 8-inch ,,	30	
Shells, R.M.L., filled*, Shrapnel, 6·6-inch ,,		
Shells, R.M.L., filled*, star ... 8-inch ,,	10	
Shells, R.M.L., filled*, star ... 6·6-inch ,,		
Shells, R.M.L., filled*, star ... 6·3-inch ,,		
Shot, R.M.L., case, 80 pr. (for 6·3-in.)	10 per 100 rounds.	
Wads, fuze-hole, G.S.	1 per empty common shell.	
Woolwich Section, No. 29.		
Clinometers, large‡	1 per howitzer	For giving quadrant elevation and measuring vertical angles.

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* Supplied with fuze-hole plugs, which, however, are separately shown, and are to be separately charged and accounted for.

‡ Stations having "Clinometer, Watkin," will retain them in use until they become unserviceable, when they will be replaced by the "Clinometer, large."

EQUIPMENT OF S.B. CAST-IRON GUNS AND CARRONADES (INCLUDING S.B. B.L. 32-PR. GUNS).

ARMAMENTS OF WORKS.

TABLE 8.	Proportions.	Remarks.
Woolwich Section, No. 4.		
Carts, trench	1 per sub-district ...	For moving projectiles.
Drugs, gun, 5 tons	1 per district	Suitable for all ordnance up to 5 tons. *See* note †, page 220.
Limbers, sling wagon, 6 tons ...	1 per district if necessary	Available for all light ordnance. *See* note †, page 220.
Wagons, sling, 6 tons		
Woolwich Section, No. 5.		
Cartouches, leather	1 per 4 guns when employed for salutes	For supplying the guns with cartridges.

Equipment of S.B. Cast-iron Guns and Carronades (including S.B. B.L. 32-pr. Guns)—Armament of Works—*continued.*

TABLE 8—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 7.		
Hammers, claw, 28-oz.	2 per battery for all ordnance.	
Spanners, McMahon, 15-inch ..	1 per battery for all ordnance	For tightening nuts.
Wrenches, knock up, G.S.	1 per work, 2 if over 10 slides	For tightening nuts, &c. Available for all natures of traversing slides.
Woolwich Section, No. 10.		
Linstocks	1 per battery for S.B. ordnance	To hold lighted slow-match.
Woolwich Section, No. 11.		
Chalk, white ... ... lbs.	2 per piece	Annual supply.
Oil, mineral ... ... gallons	Sufficient to fill the hydraulic buffer.	
Woolwich Section, No. 13.		
Clippers, portfire	1 per battery for S.B. ordnance	To cut lighted portfires.
Sticks, portfire	2 per battery for S.B. ordnance	To hold lighted portfires.
Woolwich Section, No. 14.		
Buckets, sponge, garrison	1 per 2 pieces	To hold water for damping the sponge.
Carriages, garrison S.B. 8-inch gun ... S.B. 24-pr., carronade sliding, medium, No. 6 (S.B. B.L. 32-pr.)	1 per piece, according to description of mounting approved	For component and spare parts, *see* pages 526 to 545.
Gyns, triangle, with appurtenances, light	1 per sub-district, or 2 if more than 3 works. (In exceptional positions, if more are considered necessary they must be specially applied for)	Available for all ordnance of 7 tons and under. For complete set of stores, *see* note §, page 222.
Handspikes common, 7 feet or 6 feet	2 with a rear chock or carronade carriage	7 feet handspikes are used with guns on rear chock carriages.
Handspikes metal roller, 7 feet, L.S.	2 with a sliding carriage	For running up the gun.
Handspikes wood roller, 6 feet ...	1 with a rear chock carriage	
Levers iron shod, crow, 7 feet ...	1 per work for all ordnance	To draw bolts out of slides, &c.
Levers steel shod, 4 feet	2 per slide	For traversing the slide
Measures, hydraulic buffer, filling...	1 per work where required	For filling the hydraulic buffers.
Pedestals, carriage garrison, common, R.M.L. 64-pr. 58 cwt.	1 per wood carriage and 1 per carriage medium No. 6	For S.B. 24 pr.
Pedestals, carriage medium No. 6 ...		S.B. B.L. 32-pr.
Pedestals, carriage medium ,, 23 ...		S.B. rear chock 8-inch.
Slides, L, medium, No. 6 (S.B. B.L. 32-pr.)	1 per medium carriage, No. 6	For component and spare parts, *see* pages 554 to 561.
Spanners, hydraulic buffer	... ...	*See* Appendix IX, pages 168 to 182.

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Equipment of S.B. Cast-iron Guns, and Carronades (including S.B. B.L. 32-pr. Guns)—Armament of Works—*continued.*

TABLE 8—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 16.		
Ordnance, S.B.* carronade, 24-pr. gun, 8-inch	As authorised	
Plugs, vent	1 per piece	To protect the vent.
Scales, tangent, wood, S.B. gun, 8-inch	1 per gun	
Sights S.B., fore and hind, carronade, 24-pr.	1 fore and 1 hind per carronade	
gun, 8-inch	1 fore and 1 hind per gun	
Spikes, gun, common	2 per piece, except S.B. B.L. 32-pr.	To spike vents permanently.
Tools, cleaning and painting ordnance ... sets	1 per district	For detail of tools *see* Table B, page 56.
Vent-servers†	1 per piece (except S.B. B.L. 32-pr.)	To place in vent while loading.
Wrenches, sight, S.B.	1 per 10 guns per work	For screws of sights, pin friction tube, and lanyard guides.
Woolwich Section, No. 17.		
Ordnance, S.B. B.L. 32-pr.	As authorised	For fittings and special implements, *see* pages 372 to 375.
Prickers, vent, 12-inch	1 per piece	To clear the vent.
Woolwich Section, No. 18.		
Caps, sponge, Nos. 7, 8, and 10‡	1 per sponge where necessary.	To protect sponge head.
Cases, cartridge, Nos. 3 to 6	2 per piece	To bring filled cartridges to the piece in action.
Covers, breech, S.B. B.L. 32-pr.	1 per 32-pr. S.B. BL. gun.	
Rammers S.B. B.L. 32-pr. S.B. 8-inch	1 per gun	Rammers for carronodes are on the sponge staves.
Ropes, drag, heavy ... pairs	2 per work for all ordnance	
Sponges S.B. B.L. 32-pr. S.B. 8-inch gun S.B. 24-pr.	1 per piece	
Tackles, luff, 14 fathoms	2 per 2 or less slides	
Tampeons§ S.B. B.L. 32-pr. muzzle	1 per S.B. B.L. 32-pr. gun	To protect the bore.
S.B. 8-in. gun	1 per gun	
Wadhooks carronade, 24-pr. 8-inch gun	1 to every 3 pieces in a work	For drawing charges and searching the bore.
Woolwich Section, No. 21.		
Cartridges S.B. B.L., filled, silk cloth, 32-pr. S.B., filled, serge 24-pr. carronade 8-in. gun	1 per round of ammunition	
Woolwich Section, No. 22.		
Boxes, tube, garrison	1 per piece	For copper friction tubes.
Fuzes‖ percussion, Pettman, land, No. 6	1 per 2 common shells	For common shells with "crossed" plugs.
time, common, No. 32	1 to 2 common shells	In cylinders of 5 each.

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* With the following fittings and sights, which are, however, separately shown, and are to be separately charged and accounted for:—With (*guns*): Sights, 1 fore and 1 hind, each with 2 fixing screws and lead packing, and 1 scale, tangent, wood; (*carronades*): Sights, 1 hind, with 2 fixing screws and lead packing, and 2 preserving screws, and 1 fore.

† Whipcord should be demanded separately for making the lanyards.

‡ Only to be used for sponges in transit, or where stores are damp.

§ A junk wad should be demanded for, and attached to each tampeon.

‖ The designation number is shown on the label of the cylinder or other package on which the fuze is packed. The number stamped on the fuze itself denotes the number if the thousand manufactured.

Equipment of S.B. Cast-iron Guns, and Carronades (including S.B. B.L. 32-pr. Guns)—Armament of Works—*continued.*

TABLE 8—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 22—continued.		
Horns, powder*	1 per battery for all ordnance	For priming guns if required.
57 Gen. No. 6321 **Implements,** fuze, shell, and cartridge: Bits, hook-borer ...	6 per 2 pieces.	
Cylinders, common...	1 per 2 pieces.	
Handles, hook-borer	1 per 2 pieces.	
Hooks, hook-borer ...	1 per 2 pieces.	
Keys, fuze and plug, G.S.	1 per 2 pieces.	
Lanyards, friction tube, garrison, No. 3.	2 per piece	
Match quick ... ... lb.	½ per work, in tin cylinder	For general purposes.
Match slow ... ... ,,	1 per 100 rounds... ...	For lighting portfires, &c.
Portfires, common	2 per 100 rounds ...	For general use.
Straps, tube box, long...	1 per tube box	
Tubes, friction, copper, solid drawn, with ball.	1 per round	Issued in cylinders containing 25.
Woolwich Section, No. 24.		
Bottoms, shell	1 per shell according to nature	Issued strung on iron rods holding 20.
Garlands, rectangular† 8-inch	According to circumstances	To hold (generally) a pile of 30 shot or shells.
Garlands, rectangular† 24-pr.		
Garlands, pins	4 per garland	Unite sides of garland at corners.
Gauges, shell, ring, S.B. 8-inch, and 24-pr....	1 high gauge per battery for each calibre	For gauging projectiles.
Plugs, fuze-hole, common	1 per shell.	
Rivets, shell, common	1 per bottom issued loose	For fixing wood bottoms to shells.
Shells, S.B.	... ...	*See* below.
Shot, S.B.	... ...	
Wads, fuze-hole, common	1 per common shell ...	For fuze-holes of empty shells.
Woolwich Section, No. 25.		
Cans, oil, feeding, 1-pint	1 per 6 pieces	
Lamps, fighting‡	2 per casemate in which ordnance are mounted for flank defence	

TABLE 8—*continued.*	Flanks.	32-pr. S.B.B.L. guns.		
	8-inch Guns, and all Carronades.	Home.	Abroad.	
Shells, S.B., common, loose§ ...	30	—	—	Per 100 rounds.
Shot, S.B., case and grape ...	70	25‖	50‖	

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* Contains 1½-lb. of gunpowder, which will be supplied as required.

† Where it can be done, garlands should be made on the spot, of stone or rod iron, or where practicable, beds should be made for the piles with spherical projectiles half sunk in the ground.

‡ Oil and wick for these are supplied by Army Service Corps, as required.

§ Supplied with fuze-hole plugs, which, however, are separately shown, and are to be separately charged and accounted for.

‖ Case shot only.

EQUIPMENT OF Q.F. 6-INCH B., 4·7-INCH AND 12-PR. GUNS.

TABLE 9.	Proportions.	Remarks.	
Woolwich Section, No. 1.			
Whistles, police	1 per group of 12-pr. Q.F. guns	For use of N.C.O. acting as gun group commanders	57 Gibraltar 6707
Woolwich Section, No. 2.			
Bars, crow, 6-feet	1 per work	For general use.	
Lamps, tracing*	2 per gun	For night firing.	
Woolwich Section, No. 4.			
Boxes, grease, 3lb.	1 per 3 guns or less ...		
Carts, trench	1 per sub-district ...	For moving projectiles.	
Drugs, gun 5-ton	1 per district 4·7-in. only	For moving ordnance	57 3 9418
Drugs, gun 25 ,, ...	1 per district 6-in. only	For moving ordnance	
Woolwich Section, No. 5.			
Brushes, water, carriage	2 per gun	For cleaning purposes.	
Woolwich Section, No. 7.			
Braces, magazine, with bit... ...	1 per gun	For opening and closing cartridge boxes	57 Gen. No. 8509
Chests, tool, filled No. 3 D ...	As authorised by para. 182.	For repair of carriages, &c.	
Chests, tool, filled ,, 11 E ...	1 per work	For repair of carriages, &c.	
Drivers, screw, G.S., 24-inch	1 per gun	For general use.	
Hammers, claw, 28 ozs. ...	1 per gun	For general use.	
Mallets, tinman's	1 per 6in. gun	For removing rope grummets from projectiles having driving bands with gas checks.	
Spanners, Armament Artificers, double-ended 1½-inch and 1⅜-inch 1¼ ,, ,, 1⅛ ,, 1 ,, ,, ⅞ ,, ¾ ,, ,, ⅝ ,, ½ ,, ,, ⅜ ,,	1 set per work ...	For adjusting and tightening up bolts and nuts.	
Spanners, McMahon, 15-inch ...	1 per gun	For tightening nuts, &c.	
Woolwich Section, No. 10.			
Filters, hydraulic jack	1 per work, for 6-inch and 4·7-inch	For filling hydraulic jacks.	
Frames, store, hydraulic jack ...	1 per work or per 4 jacks, for 6-inch and 4·7-inch	For keeping jacks under pressure.	
Jacks, lifting hydraulic, G.S., 10 tons	1 per work, for 6-inch and 4·7-inch	For general purposes.	
Jacks, lifting screw, Clerk's	2 per work ...	For general purposes.	
Pad, frame, store hydraulic jack	1 per hydraulic lifting jack.		
Woolwich Section, No. 11.			
Oil, mineral ... ...galls.	As required	For hydraulic buffers.	

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* Oil and wick for these supplied by Army Service Corps, as required.

Equipment of Q.F. 6-in. B., 4·7-inch and 12-pr. Guns—*continued*.

TABLE O—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 13.		
Cans, lubricating, No. 9	1 per gun	For lubricating purposes.
Woolwich Section, No. 14.		
Buckets, sponge, garrison... ...	1 per gun	For general use.
Carriages, garrison, Q.F. 6-in. ... 4·7-in. ... 12-pr. ...	As authorised... ...	For components, &c., *see* pages 562 to 574.
Spanners and special implements	... ...	*See* Appendix IX, pages 168 to 182.
Gyns, triangle, with appurtenances, light, tubular	1 per sub-district ...	For mounting ordnance, &c.
Handspikes, common, 7-feet ...	2 per 6-in. gun.	
Measures, hydraulic buffer, filling	1 per work	For filling hydraulic buffers
Plates, base, pedestal, Q.F., 12-pr.—		
Steel anchoring ... ... Steel base	1 per mounting...	
Bolts, holding down	6 per mounting.	
Woolwich Section, No. 16.		
Box, spare parts and springs	1 per group of 12-pr. Q.F. guns	To be provided locally.
Ordnance, Q.F. 6-in. B. ... ... 4·7-inch ... 12-pr. 12-cwt. A	As authorised ...	For components, special implements, and appurtenances, *see* pages 360 to 363.
Plugs, gun	1 per 12-pr. Q.F. gun...	For protecting breech, to be made locally.
Tools, cleaning and painting ordnance, set	1 per district	For details of tools *see* Tables A and B, pages 54 and 55.
Woolwich Section, No. 18.		
Brushes, piasaba, Q.F.	1 per 2 guns per work.	
Canvas, packing, Hessian, 47-in. ... ...yards	2½ per gun	Annual supply. For use with piasaba brush for cleaning bores.
Covers breech and shield, Q.F., 6-in. and 4·7-inch	1 per gun.	
Covers gun and mounting, Q.F., 12-pr.	1 per gun.	
Keys, tampeon, small	1 per 2 or less number of guns, 4·7-inch.	Securing tampeon in gun.
Rammer, B.L. or Q.F. 6-in. ...	1 per gun.	
Staves, end, Q.F. 6-in to 4-in. ... ... 12-pr.	1 per piasaba brush.	For guns so mounted that the muzzles are not conveniently accessible.
Staves, end, Q.F. 12-pr., 12-cwt. tampeon	1 per gun	
Tampeons B.L., Q.F., or Q.F.C., without stave, 6-in.	1 per gun.	
Tampeons Q.F., 4·7-inch ... 12-pr., 12-cwt., with stave, Mark I	1 per gun.	For guns so mounted that the muzzles are not conveniently accessible.
Tampeons B.L., 15-pr. and 12-pr., or Q.F., 12-pr., without stave ...	1 per 12-pr. gun	
Woolwich Section, No. 22.		
Fuzes, percussion, base, large, No. 11 ...	1 per common pointed 6-in. shell.	
Fuzes, percussion, base, medium, No. 12	1 per common or A.P. shell, 4·7-in. or 12-pr.	

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Equipment of Q.F. 6-in. B., 4·7-inch and 12-pr. Guns—*continued.*

TABLE 9—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 22—continued.			
Implements, fuze, shell, and cartridge — keys, base, fuze, and plug	1 per gun	For removing the base plug and inserting the fuze.	57 Colchester 4498
Lanyards, Q.F., 12-pr., land service	3 per 12-pr. gun.		
Tubes, vent sealing percussion*...	100 per gun.		
Woolwich Section, No. 22A.			
Boxes, cartridge, Q.F. — 6-in. L.S.	76 per gun	75 for filled and 1 for empty cartridges.	
4·7-in.	51 per gun	50 for filled and 1 for empty cartridges.	
12-pr., 12-cwt. ...	41 ,, ,, ...	40 for filled, and 1 for empty cartridges.	
Cartridges, Q.F. — adapters	20 ,, ,, ...	For cartridges fired with V.S. percussion tubes.	
empty, service	4 ,, ,, 6-in.... 6 ,, ,, 4·7-in. and 12-pr.	For testing electrical communications, &c.	
filled, service† — 6-in. short, 13 lb. 4oz. cordite, size 30, Mark III ...	300 ,, ,,	In 75 boxes.	
4·7-inch	300 ,, ,, ...	In 50 boxes.	
12-pr., 1lb. 15 ozs., cordite (size 15)	400 ,, ,,		
plugs, primer hole	1 per empty cartridge.		
primers, electric, large ...	200 per sub-district (1 box)	For testing purposes in empty cartridges.	
Gauges, shell ring, B.L., Q.F., or Q.F.C. band — 6-in. broad high	1 per work. ...		
6-in. broad low			
Gas check, high ...		For shells having driving band, with gas check.	
B.L., Q.F., or Q.F.C. body, 6-in.			
B.L. or Q.F. band, 12-pr. high ...			
B.L. or Q.F. band, 12-pr. low ...			
B.L. or Q.F. body, 12-pr.			
Q.F. band, 4·7-in. high			
Q.F. band, 4·7-in. low			
Q.F. body, 4·7-in.			
Implements, fuze, shell, and cartridge — holders, cartridge Q.F. or Q.F.C. 6-in., 4·7-in., 12-pr.	1 per gun. ...		57 Vocab. 3846
holders, shell, Q.F., 6-in., 4·7-in. and 12-pr.	1 per 2 guns ...	For fuzing shells with base fuzes.	
keys, primer, electric, Q.F. or Q.F.C. large — inserting, primer removing, primer	1 set per gun.		

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* After being fired the tubes will be returned to store, and forwarded to Woolwich as old metal.

† Empty cases are always to be cleaned as soon as possible after firing. *See* Regulations for Magazines, &c.
The cases, when dry, are to be repacked in the boxes in which they were supplied, and returned to store. The fired cases are not, on any account, to be repacked in boxes containing unfired cartridges.

Equipment of Q.F. 6-inch B., 4·7-inch and 12-pr. Guns—*continued.*

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TABLE 9—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 22A—continued.		
Lanyard friction tube, siege, No. 1, Mark IV	3 per 6-in. gun.	
Plugs, base, shell, Q.F. 4·7-in.	1 per shell	
Plugs, base, shell, large	1 per shell	For 6-in.
Plugs, base, shell, medium	1 per shell	,, 12-pr.
Shells, Q.F., filled, common cast steel *† 4·7-inch	300 per gun	‡
Shells, Q.F., filled, common cast steel *† 12-pr.	400 ,, ,,	‡
Shells, B.L. or Q.F. common pointed, 6-in. filled*†	90 per cent.	
Shot, B.L. or Q.F. armour piercing, 6-in.	10 ,, ,,	
Woolwich Section, No. 24.		
Drivers, grummet	1 per 6-in. gun	For removing rope grummets from projectiles having driving band with gas check. To be provided locally.
Planks, stacking projectiles	1 per work, 6-in. only	For rolling projectiles.
Woolwich Section, No. 25.		
Lamps, fighting§	2 per gun.	
Woolwich Section, No. 29.		
Stands, telescope, 2½-inch socket	1 per telescope.	
Telescopes, 3-feet	1 per work.	

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* Supplied with base plugs, which however are separately shown, and are to be separately charged and accounted for.

† The proportions of projectiles here laid down will be maintained for the total number of each nature of gun in a district, and will be subject to the same conditions as laid down on page 212 for B.L. guns.

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‡ The above proportions will be gradually introduced as existing stock of armour piercing and common iron shells is used up for practice.

§ Oil and wick for these are supplied by Army Service Corps, as required.

EQUIPMENT OF HOTCHKISS, Q.F., 6-PR. GUN, MARK I, ON ELASTIC FRAME STAND.

TABLE 10.

	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 1.					
Whistles, police	1 per group of guns mounted for defence against torpedo boat attack.	...	...	...	For use of N.C.O. acting as gun group commander.
Woolwich Section, No. 14.					
Pivots and Sockets, Q.F., 6-pr. Hotchkiss (Mark I)	As authorised	...	...	...	
Pivot—*					
Capsquare, metal, left	...	1	...	...	
Capsquare, metal, right	...	1	...	...	
Levers, steel, clamping screw, capsquare	...	1	...	1 to 5	
Pivots, metal	...	1	...	...	
Screws, steel, capsquare ...	...	3	1	...	
Screws, steel, clamping capsquare	...	1	...	1 to 5	
Screws, steel, holding down pivot with washer	...	1	...	1 to 5	
Stud, stop, traversing screwed	...	1	...	...	
Washers, steel, friction ...	...	1	...	...	
Wedges, steel, for shield, with set screw, left...	...	1	...	1 to 5	
Wedges, steel, for shield, with set screw, right	...	1	...	1 to 5	
Shield—					
Pins, steel, stay, supporting, with collar and split key	...	2	...	...	
Shield, steel, without fittings	...	1	...	...	
Stays, steel, supporting shield, with collars and nuts	...	2	...	...	
Sockets, metal	...	1	...	...	
Studs, stop, traversing, plain	...	2	...	...	
Plates, base, Q.F., 6-pr. ...	As authorised	...	...	...	
Plates, steel, anchoring ...	...	1	...	...	
Plates, steel, base	...	1	...	...	
Bolts, holding down	...	10	...	...	
Stand, elastic frame, Q.F., 6-pr. (Mark I)	As authorised	...	...	...	
Bolts, hexagon head, with nuts	...	10	...	...	
Screws, hexagon head ...	...	8	...	...	
Screws, holding down socket	...	2	...	...	
Stand, iron, elastic, with fixed metal bush	...	1	...	...	

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* One spare pivot is allowed to each station abroad, to be held in Army Ordnance Department charge.

Equipment of Hotchkiss, Q.F., 6-pr. Gun, Mark I, on Elastic Frame Stand—*continued.*

TABLE 10—*continued.*

	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 16.					
Boxes, spare parts and implements, Q.F., Hotchkiss, 6-pr.	1 per gun	...	...	...	
Clamps, tangent sight, automatic, Q.F., Hotchkiss	...	1	...	1 to 5	
Ordnance, Q.F., Hotchkiss, 6-pr. (Mark I)	As authorised	...	...	...	
Buffer-tube	...	...	...	1 to 10	For guns fitted with interchangeable wedge plates.
Bushes, plate wedge ...	...	...	2	...	
Cranks	...	1	...	1 to 5	
Crank handles	...	1	...	1 to 10	
Extractors	...	1	1	...	
Hammers, firing	...	1	1	...	
Pins, firing	...	...	6	...	
Plates, wedge	...	...	...	1 to 5, or less No. of wedges allowed	For guns fitted with interchangeable wedge plates.
Rocking shafts...	...	1	...	1 to 10	
Screws, set, crank-handle ...	...	...	1	...	
Screws, pivot, trigger	...	...	1	...	
Screws, preserving, stud, steadying	...	1	...	...	
Screws, shoulder-piece, fixing ...	...	1	...	...	
Screws, stop, wedge ...	...	1	1	...	
Screws, fixing trigger guard and bracket, trigger piece	...	...	3	...	
Shoulder-pieces	...	1	...	1 to 10	
Springs, crank-handle ...	...	...	1	...	
Springs, main	...	1	4	...	
Springs, trigger-sear ...	...	1	2	...	
Studs, shoulder-piece, fixing ...	..	1	...	1 to 10	
Studs, shoulder-piece, steadying	...	1	...	1 to 10	
Triggers	...	1	...	1 to 5	
Trigger-guards...	...	1	...	1 to 5	
Trigger-sears	...	1	1	...	
Wedges	...	1	...	1 to 10	
IMPLEMENTS.					
Brushes, sponge, without rod	1 per gun	...	...	...	
Cans, oil*	1 per gun	...	...	...	
Drivers, screw	1 ,,	...	...	...	
Extractors, hand	1 ,,	...	...	...	
Rods, brush, sponge	1 per 2 or less number of guns	...	...	...	
Tommies	1 ,,	...	...	...	For dismounting.
Sights, Q.F., fore, Hotchkiss, 6-pr.	...	1	...	1 to 5	
Sights, Q.F., tangent, Hotchkiss (with range strip), 6-pr.	...	1	...	1 to 5	
Trays, gun fittings, Q.F., 6-pr.	1 per group or per gun according to requirements	...	...	...	

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Malta
1549

57
Gen. No.
6952

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* When the stock of these cans is used up, "Cans, lubricating, No. 10," will be issued.

Equipment of Hotchkiss, Q.F., 6-pr. Gun, Mark I, on Elastic Frame Stand—*continued.*

TABLE 10—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 18.					
Covers, gun and mounting, Q.F., 6-pr. (elastic stand)	1 per gun	...	...	...	To protect gun and mounting.
Woolwich Section, No. 22A.					
Tools, reforming cartridges, Q.F. or Q.F.C.					
Gauges, chamber low, 6-pr.	1 per sub-district	...	...	...	For gauging the cartridges before firing.
Woolwich Section, No. 26.					
Lamps, fighting*	2 per casemate	...	...	...	For guns mounted in casemates not already provided with lamps.

* Oil and wick for these are supplied by Army Service Corps as required.

EQUIPMENT OF HOTCHKISS, Q.F., 6-PR. GUN, MARK II, ON RECOIL CONE AND EMBRASURE MOUNTINGS.

TABLE 11.	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 1.					
Whistles, police	1 per group of guns mounted for defence against torpedo boat attack.	...	...	...	For use of N.C.O. acting as gun group commander
Woolwich Section, No. 11.					
Oil, mineral, pints	As required	...	...	...	For hydraulic buffers.

57
Gen. No.
8520

57
Gibraltar
6346

Equipment of Hotchkiss, Q.F., 6-pr. Gun, Mark II, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 11—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 14.					
Carriages, garrison, Q.F., recoil 6-pr. Hotchkiss, Mark I (Cone and Embrasure).	As authorised	...	...	...	
Cradle—					
Caps, metal, hydraulic buffer	...	2	...	...	
Cradles, M.C.S., without fittings	...	1	...	...	
Glands, metal, ram, automatic...	...	1	...	...	
Glands, metal, rod, piston, hydraulic buffer	...	2	...	...	
Pistons, steel, with rod, hydraulic buffers	...	2	...	...	
Plugs, filling hole, hydraulic buffer, No. 32, also emptying (2 plugs with 1 connecting chain and loop to a set) ...sets	...	2	1	... ...	
Rams, steel, automatic ...	...	1	...	...	
Rings, packing, leather, U section, hydraulic buffer	...	2	4	...	
Rings, packing, leather, U section, ram, automatic	...	1	2	...	
Rings, packing, metal, hydraulic buffers	...	2	...	...	
Rings, packing, metal, ram, automatic	...	1	...	...	
Screws, steel, clamping, cradle	...	1	...	...	
Screws, steel, fixing transom	...	4	2	...	
Screws, steel, securing spring, shoulder-piece	...	1	...	...	
Shoulder-piece, metal, with locking bolt, chain, loop, and split key	...	1	...	...	
Springs, steel, spiral, cylinder, hydraulic buffer, recoil	...	2	1	...	
Springs, steel, spiral, shoulder-piece ...	...	1	1	...	
Springs, steel, with screws, gland, hydraulic buffers	...	2	...	...	
Springs, steel, with screws, gland, ram, automatic	...	1	...	...	
Strips, cylinders, hydraulic buffers	...	4	1	...	
Transoms, metal, with arms, spindle, shoulder-piece, and trigger guard	...	1	...	...	
Triggers, steel	...	1	...	...	
Washers, packing, hydraulic buffers, leather, set of 6 ... ... sets	...	1	2	...	
Crosshead—					
Capsquare, metal	...	2	...	...	
Crosshead, metal, without fittings	...	1	...	...	
Screws, steel, capsquare ...	...	4	1	...	

Equipment of Hotchkiss, Q.F., 6-pr. Gun, Mark II, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 11—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 14—continued.					
Carriages, Q.F., recoil, 6-pr., Hotchkiss, Mark I (Cone and Embrasure)—*continued.*					
Pivot—					
Capsquares, metal	...	2	...	...	
Pivots, M.C.S., without fittings	...	1	...	...	
Plates, metal, with screws { inscription	...	1	...	...	
instruction	...	1	...	...	
Screws, steel, capsquare ...	...	2	...	...	
Shield—	1 per carriage	...	...	...	
Bolts, steel, with nuts ...	...	6	...	...	
Keys, split, round, loop head, ⅜-in. × 2¾-in.	...	6	3	...	
Shield, steel, without fittings	...	1	...	...	
IMPLEMENTS.					
Boxes, spare parts and implements	1 per carriage	...	...	...	
Drifts, steel	1 ,,	...	...	...	
Hammers	1 ,,	...	...	...	
Handles, clamping screws, capsquare	1 ,,	...	...	...	
Measures, filling buffer, with tube	1 ,,	...	...	...	
Spanners { No. 151, nut socket and cone	...	...	...	...	*See* Appendix IX, pages 168 to 182.
hydraulic buffers { No. 66, cap, gland and piston	...	...	...	...	
No. 67, plugs, filling and emptying, and transom screws	...	...	...	...	
Tommies, No. 20, steel ...	...	...	...	...	
Cone, Q.F., recoil, 6-pr., Mark I	As authorised	...	...	...	
Cones, steel, with fixed metal socket	...	1	...	...	
Plates, metal, inscription ...	...	1	...	...	
Screws, steel, clamping ...	...	1	...	...	
Plate, base, Q.F., 6-pr. ...	As authorised	...	...	...	
Plates, steel { anchoring	...	1	...	...	
base	...	1	...	...	
Bolts, holding down	...	10	...	...	
Saddle, Q.F., 6-pr. Hotchkiss, recoil carriage (Embrasure)	As authorised	...	...	...	
Bolts, steel, ck. head, with nuts	...	6	...	...	
Saddles, M.C.S., without fittings	...	1	...	...	

Equipment of Hotchkiss, Q.F., 6-pr. Gun, Mark II, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 11—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 14—continued.					
Saddle, Q,F., 6-pr. Hotchkiss, recoil carriage (Embrasure)—*continued.*					
Screws, steel ... ... set	...	6	...	...	
Plates, steel, screws ... ,,	...	2	...	...	
Keys, split, round, loop head, $\frac{3}{8}$-in. × $2\frac{3}{4}$-in. ...	...	6	...	...	
Keys, split, round, loop head, $\frac{3}{8}$-in. × $2\frac{1}{4}$-in. ...	...	6	...	...	
Wedges, steel, flat	...	2	...	...	
Wedges, steel, round ...	...	4	...	...	
Socket—					
Handles, screw, clamping	...	1	...	...	
Screws, steel, clamping ...	...	1	...	...	
Socket, metal, without fittings	...	1	...	...	
Woolwich Section, No. 16.					
Boxes, spare parts and implements, Q.F., Hotchkiss, 6-pr.	1 per gun	...	...	...	
Clamps, tangent sight, automatic Q.F., Hotchkiss, 6-pr.	...	1	...	1 to 5	
Ordnance, Q.F., Hotchkiss, 6-pr., Mark II	As authorised	...	...	...	
Brackets, trigger-piece ...	...	1	...	1 to 5	
Bushes, plate, wedge... ...	...	...	2	...	
Cranks	...	1	...	1 to 5	
Crank handles	...	1	...	1 to 10	
Extractors	...	1	1	...	
Hammers, firing	...	1	1	...	
Pins, firing	...	...	6	...	
Plates, wedge	...	...	...	1 to 5, or less number of wedge plates allowed per sub-district	For guns fitted with interchangeable wedge plates.
Rocking-shafts...	...	1	...	1 to 10	
Screws, fixing, bracket-trigger-piece	...	...	3	...	
Screws, set, crank handle ...	...	...	1	...	
Screws, pivot, trigger-piece ..	...	...	1	...	
Screws, preserving stud shoulder piece, steadying	...	1	...	...	
Screws, preserving stud shoulder piece, fixing	...	1	...	...	
Screws, stop wedge	...	1	1	...	
Springs, crank-handle ...	...	...	1	...	
Springs, main	...	1	4	...	
Springs, trigger-sear ...	...	1	2	...	
Studs, shoulder piece, fixing ...	...	1	...	...	Not required with recoil cone mountings, but are supplied with the gun in case it should be mounted on a non-recoil mounting.
Studs, shoulder piece, steadying ...	...	1	...	...	

Equipment of Hotchkiss, Q.F., 6-pr. Gun, Mark II, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 11—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 16—continued.					
Ordnance, Q.F., Hotchkiss, 6-pr., Mark II —*continued.*					
Trigger-pieces	...	1	...	1 to 5	
Trigger sears	...	1	1	...	
Wedges	...	1	...	1 to 10	
IMPLEMENTS.					
Brushes, sponge, without rod	1 per gun	...	...	...	
Cans, oil *	1 ,,	...	...	...	
Drivers, screw	1 ,,	...	...	...	
Extractors, hand	1 ,,				
Rods, brush, sponge	1 per 2 or less number of guns	...	...	... ...	
Tommies...	1 per gun	...	...		
Sights, Q.F. fore, Hotchkiss, 6-pr., Mark II	...	1	...	1 to 5	
Sights, Q.F. tangent, Hotchkiss, with range strip, 6-pr., Mark II	...	1	...	1 to 5	
Trays, gun fittings, Q.F., 6-pr.	1 per group or per gun according to requirements	...	...	...	
Woolwich Section, No. 18.					
Covers, gun and mounting, Q.F., 6-pr. (Cone)	1 per gun	...	...	...	To protect gun and mounting.
Woolwich Section, No. 22A.					
Tools, reforming cartridges, Q.F. or Q.F.C.					
Gauges, chamber, low, 6-pr.	1 per sub-district	...	...	...	For gauging the cartridges before firing.
Woolwich Section, No. 25.					
Lamps, fighting†	2 per casemate	...	...	...	For guns mounted in casemates not already provided with lamps.

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Malta
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* *See* footnote * on page 262.

† Oil and wick for these are supplied by Army Service Corps, as required.

57
Gen. No.
6952

EQUIPMENT OF NORDENFELT, Q.F., 6-PR. GUN, MARK III, ON RECOIL CONE AND EMBRASURE MOUNTINGS.

57
Gen. No.
8250

57
Gibraltar
6346

TABLE 12.	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 1.					
Whistles, police	1 per group of guns mounted for defence against torpedo boat attack	...	...	...	For use of N.C.O. acting as gun group commander.
Woolwich Section, No. 11.					
Oil, mineral ... ... pints	As required	...	...	...	For hydraulic buffers.
Woolwich Section, No. 14.					
Carriages, Q.F., recoil 6-pr. Nordenfelt, Mark I (Cone and Embrasure.)	As authorised	...	...	...	
Cradle—					
Caps, metal, hydraulic buffer	...	2	...	...	
Cradles, M.C.S., without fittings	...	1	...	...	
Glands, metal { ram, automatic	...	1	...	...	
Glands, metal { rod. piston, hydraulic buffer	...	2	...	...	
Pistons, steel, with rod, hydraulic buffers	...	2	...	...	
Plugs, filling hole, hydraulic buffer, No. 32, steel, also emptying (2 plugs with 1 connecting chain and loop to a set) ... sets	...	2	1	...	
Rams, steel, automatic ...	...	1	...	...	
Rings, packing { leather U section { hydraulic buffers	...	2	4	...	
Rings, packing { leather U section { ram, automatic	...	1	2	...	
Rings, packing { metal { hydraulic buffers	...	2	...	...	
Rings, packing { metal { ram, automatic	...	1	...	...	
Screws, steel { clamping cradle	...	1	...	...	
Screws, steel { fixing transom ...	...	4	2	...	
Screws, steel { securing spring shoulder piece	...	1	...	...	
Shoulder-piece, metal, with locking bolt, chain, loop, and split key	...	1	...	...	
Springs, steel { spiral { cylinder, hydraulic buffers	...	2	1	...	
Springs, steel { spiral { shoulder-piece ...	...	1	1	...	
Springs, steel { with screws { gland, hydraulic buffers	...	2	...	...	
Springs, steel { with screws { gland, ram, automatic	...	1	...	...	

Equipment of Nordenfelt, Q.F., 6-pr. Gun, Mark III, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 12—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 14—continued.					
Carriages, Q.F., recoil, 6-pr. Nordenfelt, Mark I. (Cone and Embrasure)—*cont.*					
Cradle—*continued.*					
Strips, cylinders, hydraulic buffers, metal	...	4	1	...	
Transom, metal, with arms, spindle, shoulder piece and trigger guard	...	1	...	...	
Triggers, steel	...	1	...	...	
Washers, packing, hydraulic buffers, leather, set of 6 sets	...	1	2	...	
Crosshead—					
Capsquares, metal	...	2	...	...	
Crosshead, metal, without fittings	...	1	...	...	
Screws, steel, capsquare ...	...	4	1	...	
Pivot—					
Capsquares, metal	...	2	...	...	
Pivots, M.C.S., without fittings	...	1	...	...	
Plates, metal with screws, inscription	...	1	...	...	
Plates, metal with screws, instruction	...	1	...	...	
Screws, steel, capsquare ...	...	2	...	...	
Shield	1 per carriage	...	...	...	
Bolts, steel, with nuts ...	...	6	...	...	
Keys, split, round, loop head, $\frac{3}{8}$-in. × $2\frac{3}{4}$-in.	...	6	3	...	
Shield, steel, without fittings	...	1	...	...	
IMPLEMENTS.					
Boxes, spare parts and implements	1 per carriage	...	...	...	
Drifts, steel	1 ,,	...	...	...	
Hammers	1 ,,	...	...	...	
Handles, clamping screws, capsquare	1 ,,	...	...	...	
Measures, filling buffer, with tube	1 ,,	...	...	...	
Spanners—No. 151, nut, socket and cone	...	...	...	...	*See* Appendix IX, pages 168 to 182.
Spanners—hydraulic buffers—No. 66, cap, gland, and piston	...	...	...	...	
Spanners—hydraulic buffers—No. 67, plugs, filling and emptying, and screws transom	...	...	...	...	
Tommies, No. 20, steel ...	...	...	...	...	

Equipment of Nordenfelt, Q.F., 6-pr. Gun, Mark III, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 12—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 14—continued.					
Cone, Q.F., recoil 6-pr., Mark I	As authorised	...	..	...	
Cones, steel, with fixed metal socket	...	1	...	...	
Plates, metal, inscription ...	...	1	...	...	
Screws, steel, clamping ..	...	1	...	...	
Plate, base, Q.F., 6-pr. ...	As authorised	...	...	...	
Plates, steel anchoring ...	...	1	...	...	
Plates, steel base	...	1	...	...	
Bolts, holding down	...	10	...	...	
Saddle. Q.F., 6-pr. Nordenfelt, recoil carriage (Embrasure)	As authorised	...	...	...	
Bolts, steel, ck. head, with nuts	...	6	...	...	
Saddle, M.C.S., without fittings	...	1	...	...	
Screws, steel ... ... set	...	6	...	...	
Plates, steel, screws ... set	...	2	...	...	
Keys, split, round, loop head ⅜-in. × 2¾-in....	...	6	...	...	
Keys, split, round, loop head ⅜-in. × 2¼-in....	...	6	...	...	
Wedges, steel flat	...	2	...	...	
Wedges, steel round ...	...	4	...	...	
Socket—					
Handles, screw-clamping...	...	1	...	...	
Screws, steel, clamping ...	...	1	...	...	
Sockets, metal, without fittings	...	1	...	...	
Woolwich Section, No. 16.					
Boxes, spare parts and implements, Q.F., Nordenfelt, 6-pr.	1 per gun	...	...	...	
Clamps, tangent sight, automatic Q.F., Nordenfelt, 6-pr.	...	1	...	1 to 5	
Ordnance, Q.F., Nordenfelt, 6-pr., Mark III	As authorised	...	...	...	
Action-cams	...	1	...	...	
Action-pins	...	1	...	...	
Blocks, breech	...	1	...	...	
Brackets, trigger-piece ...	...	1	...	1 to 5	
Extractors	...	1	...	1 to 5	
Indicators, drill stop	...	1	...	...	
Levers, breech mechanism ...	...	1	...	...	
Levers, trigger	...	1	...	1 to 5	
Pins, firing	...	1	6	...	
Screws, fixing bracket, trigger-piece	...	...	2	...	
Screws, fixing shield, loading ...	...	...	1	...	
Shields, loading	...	1	...	...	
Springs indicator, drill stop	...	...	2	...	
Springs main ...	...	1	4	...	
Springs trigger-piece ...	...	...	2	...	

Equipment of Nordenfelt, Q.F., 6-pr. Gun, Mark III, on Recoil Cone and Embrasure Mountings—*continued.*

TABLE 12—*continued.*

	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 16—continued.					
Ordnance, Q.F., Nordenfelt, 6-pr., Mark III—*continued.*					
Tappets, lever, trigger ...	...	1	...	1 to 5	
Trigger-pieces	...	1	1	...	
Wedges	...	1	...	...	
IMPLEMENTS.					
Brushes, sponge, without rod	1 per gun	...	...	...	
Cans, oil*	1 per gun	...	...	...	
Drifts, brass	1 ,,	...	...	...	
Drifts, steel, ·27-in. ...	1 ,,	...	...	...	
Drifts, steel, ·18-in. ...	1 ,,	...	...	...	
Drivers, screw	1 ,,	...	...	...	
Hammers (28 oz.)	1 ,,	...	...	...	
Rods, brush, sponge	1 per 2 or less number of guns	...	...	...	
Sights, fore, Nordenfelt, 6-pr.	...	1	...	1 to 5	
Sights, tangent, Nordenfelt, 6-pr. (with range strip)	...	1	...	1 to 5	
Trays, gun fittings, Q.F., 6-pr.	1 per group or per gun according to requirements	...	...	...	
Woolwich Section, No. 18.					
Covers, gun and mounting, Q.F., 6-pr.	1 per gun...	...	...	...	To protect gun and mounting.
Woolwich Section, No. 22A.					
Tools, reforming, cartridges, Q.F. or Q.F.C.	...	...	...	...	
Gauges, chamber, low, 6-pr.	1 per sub-district	...	...	...	For gauging the carriage before firing.
Woolwich Section No. 25.					
Lamps, fighting†	2 per casemate	...	...	...	For guns mounted in casemates not already provided with lamps.

57
Malta
1549

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* *See* footnote * on page 262.

† Oil and wick for these are supplied by Army Service Corps, as required.

EQUIPMENT OF HOTCHKISS, Q.F., 3-PR. GUN, MARK II, ON TRAVELLING CARRIAGES.

	TABLE 13.	Proportions.	Components.	Spare.		Remarks.
				Per gun.	To number of guns or less per work.	
	Woolwich Section, No. 5.					
57 Gen. No. 5646	**Harness,** general service—bands, belly	1 per travelling carriage fitted for farmers draught				
	Woolwich Section, No. 11.					
57 Gibraltar 6346	**Oil,** mineral pints	As required	...	...	...	For hydraulic buffers.
	Woolwich Section, No. 13.					
	Carriages, Q.F., 3-pr., travelling	1 per gun	...	...	...	
	Axletrees, steel, 3rd class B, No. 56	...	1	...	...	
	Bearings, metal, bolt, stay, tensile	...	2	...	...	
	Bearings, metal, screw, traversing	...	2	...	...	
	Bolts, steel, clip, axletree, with nut and split key	...	4	...	...	
	Bolts, steel, spring, supporting gear, with collar, nut, and split key*	...	1	...	...	
	Bolts, steel, stay, tensile, with collar, nut and split key	...	1	...	...	
	Boxes, trail, complete ...	...	1	...	...	
	Brackets, metal, screw, brake, tension rod†	...	1	...	...	
	Brackets, steel, supporting seat, left	...	1	...	...	
	Brackets, steel, supporting seat, right	...	1	...	...	
	Carriage body, without fittings	...	1	...	...	
	Clips, steel, axletree*... ...	...	2	...	...	
	Clips, steel, axletree, left† ...	...	1	...	...	
	Clips, steel, axletree, right†	...	1	...	...	
	Collars, iron, tube, bolt, stay, tensile	...	1	...	...	
	Eyes, trail, No. 21* ...	...	1	...	...	
	Eyes, trail, ,, 22† ...	...	1	...	...	
	Guides, steel, shaft, brake, with split key†	...	2	...	...	
	Handles, trail, lifting ...	...	2	...	...	
	Keys, split, round, loop, 3/8-in. × 3¾-in.*	...	1	1	...	
	Keys, split, round, loop, 3/8-in. × 3-in.†	...	5	2	...	
	Keys, split, round, loop, ¼-in. × 1¾-in.	...	7	1	...	
	Keys, split, round, loop, ¼-in. × 2-in....	...	7	1	...	
	Keys, split, round, loop, 3/16-in. × 1⅜-in.†	...	5	...	...	
	Keys, split, round, loop, 1/16-in. × ¾-in....	...	4	...	...	
	Pins, steel, linch, 3rd class ...	...	2	1	...	
	Plates, metal, with screws, inscription...	...	1	...	...	
	Plates, metal, with screws, instruction...	...	1	...	...	

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* For Mark I carriage only.

† For Mark II carriage only.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued.*

TABLE 18—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Carriages, Q.F., 3-pr., travelling—*continued.*					
Seats, wood	...	2	...	...	
Sockets, metal, carrying handspike	...	1	...	...	
Sockets, metal, traversing ,,	...	1	...	...	
Springs, steel, supporting gear*	...	1	...	...	
Staples, metal, traversing handspike	...	1	...	...	
Stays, steel, tensile, with collar and nut*, left	...	1	...	...	
Stays, steel, tensile, with collar and nut*, right	...	1	...	...	
Stays, steel, tensile, with collar, nut and key†, left	...	1	...	...	
Stays, steel, tensile, with collar, nut and key†, right	...	1	...	...	
Washers, drag, 3rd class B ...	...	2	1	...	
Wheels, 3rd class B, No. 52 ..	...	2	...	...	
Gear, brake—					
Blocks, wood, brake ...	...	2	...	...	
Brackets, steel, shaft, brake† left ...	...	1	...	...	
Brackets, steel, shaft, brake† right ...	...	1	...	...	
Collars, metal, jamming india-rubber pad*	...	2	...	...	
Hooks, steel, brake* ...	...	1	...	...	
Levers, steel, brake† ...	...	1	...	...	
Links, steel†	...	2	...	...	
Nuts, metal, screw, brake rod, tension†	...	1	...	...	
Pads, india-rubber, with metal bush*	...	2	1	...	
Pins, steel, with split key, lever brake... ...	...	1	...	...	
Pins, steel, with split key, links†	...	2	...	...	
Pins, steel, with split key, rods, connecting brake†	...	2	...	...	
Pins, steel, with split key, rods, adjusting brake*	...	2	...	...	
Plates, iron, connecting plate loop†	...	1	...	...	
Plates, iron, loop, stays, supporting brake†	...	2	...	...	
Rods, steel, adjusting brake, with nuts and split key*	...	2	...	...	
Rods, steel, connecting brake†	...	2	...	...	
Screws, steel, brake rod, tension†	...	1	...	...	
Shafts, steel, brake, with collars and metal bushes*	...	1	...	...	
Shafts, steel, brake†	...	1	...	...	

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* For Mark I carriage only. † For Mark II carriage only.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued.*

TABLE 13—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Carriages, Q.F., 3-pr. travelling—*continued.*					
Gear, brake—*continued.*					
Shoes, steel, brake-block, with screws*	...	2	...	...	
Shoes, steel, brake-block, with split key†	...	2	...	...	
Springs, steel, india-rubber pad*	...	2	...	...	
Stays, iron, supporting brake†	...	2	...	...	
Wheels, metal hand, with taper pin†	...	1	...	...	
Gear, elevating—					
Nuts, metal, elevating ...	...	1	...	...	
Screws, steel, elevating, No. 88, with nut and pin	...	1	...	...	
Sockets, metal, nut, elevating	...	1	...	...	
Trunnions, steel, socket, nut, elevating	...	2	...	...	
Wheels, metal, hand ...	...	1	...	...	
Gear, traversing—					
Brackets, metal, screw, traversing	...	1	...	...	
Screws, metal, lubricating, $\frac{5}{16}$-in. boss head†	...	4	...	...	
Screws, steel, traversing, with collar, nut and split keys	...	1	...	...	
Wheels, metal, hand ...	...	1	...	...	
Pivot—					
Capsquares, metal	...	2	...	...	
Nuts, steel, holding down pivot, with split key	...	1	...	...	
Pivot, M.C.S., without fittings	...	1	...	...	
Screws, steel, capsquare ...	...	2	...	1 to 5	
Shields, steel, with bolts and split keys	1	...	...	...	
Sockets, with 2 hydraulic buffers—					
Caps, metal, hydraulic buffers	...	2	...	...	
Glands, metal, hydraulic buffers	...	2	...	...	
Pistons, steel, with rod, hydraulic buffers, with nuts and split key	...	2	...	...	
Plugs, filling hole, hydraulic buffer, No. 31, steel; also emptying (2 plugs with 1 connecting chain and loop to a set), sets	...	2	...	1 to 5	

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* For Mark I carriage only. † For Mark II carriage only.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued.*

TABLE 13—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Carriages, Q.F., 3-pr., travelling—*continued.*					
Sockets, with 2 hydraulic buffers—*continued.*					
Rings, packing, hydraulic buffer, leather U section	...	2	2	...	
Sockets, metal, without fittings	...	1	...	...	
Springs, steel, spiral cylinders, hydraulic buffers	...	2	...	1 to 5	
Strips, metal, cylinders hydraulic buffers	...	4	...	...	
Washers, packing, hydraulic buffers, leather (set of 6), sets	...	1	1	...	
Sockets, screw, elevating ...	1 per carriage	...	...	...	
Collars, steel, screws, securing socket	...	2	...	...	
Keys, steel, firing, with lanyard	...	1	...	...	
Keys, steel, taper, with collar and nuts	...	1	...	...	
Keys, steel, screw, elevating, with chain and loop	...	1	...	...	
Screws, steel, set, screw, elevating	...	1	...	...	
Screws, steel, set, trigger	...	1	...	...	
Sockets, metal, without fittings	...	1	...	...	
Triggers, steel	...	1	...	...	
Straps, securing, leather, 1-in. × 44-in. D.L.	...	1	...	...	
Straps, securing, leather, 1-in × 13-in.	...	2	...	...	
Ties, linch pin	...	2	2	...	
IMPLEMENTS.					
Cans, lubricating, No. 9 ...	1 per carriage	...	...	...	
Drifts, steel	,,	...	...	..	
Hammers, 28 oz.	,,	...	...	...	
Spanners, hydraulic buffers, No. 63	...	...	...	...	*See* Appendix IX, pages 168 to 182.
Spanners, hydraulic buffers, ,, 64	...	...	...	...	
Spanners, hydraulic buffers, ,, 65	...	...	...	...	
Spanners, McMahon, 12-in.	1 per carriage	...	...	...	
Handspikes, traversing, No. 3	1 ,,	...	1	...	
Limbers, Q.F. 3-pr. travelling	1 ,,	...	...	...	
Axletrees, steel, 3rd class, B, No. 57* ...	...	1	...	...	
Axletrees, steel, 3rd class, B, ,, 175† ...	...	1	...	...	

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* For Mark I limber only.

† For Mark II limber only.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued.*

TABLE 13—*continued.*	Proportions.	Components.	Spare. Per gun.	Spare. To number of guns or less per work.	Remarks.
Woolwich Section, No. 13—continued.					
Limbers, Q.F., 3-pr., travelling—*continued.*					
Bars, steel channel, rear† ...	...	1	...	...	
Bars, steel splinter	...	1	...	...	
Bands, iron, axletree, with bolts and nuts†	...	2	...	...	
Bearings, steel, axletree† ...	...	2	...	...	
Boards, foot*	...	1	...	...	
Boxes, ammunition and tool:—†					
Boards bottom	...	5	...	...	
Boards box, ammunition front	...	1	...	...	
Boards box, ammunition rear (also tailboard)	...	1	...	...	
Boards box, ammunition side	...	2	...	...	
Boards box, ammunition top	...	1	...	...	
Boards box, tool front	...	1	...	...	
Boards box, tool side	...	2	...	...	
Boards box, tool top, in 2 pieces (also footboard)	...	1	...	...	
Chains, iron, tailboard with loop	...	2	...	...	
Guards, steel...	...	2	...	...	
Hasps, iron, box, tool ...	...	1	...	...	
Hinges, steel ,, ...	...	2	...	...	
Irons, nib strap side ...	...	2	...	...	
Joints, steel, tailboard ...	...	2	..	...	
Keys, iron with chain guard ...	...	4	...	...	
Keys, iron with chain tailboard ...	...	2	...	...	
Plates, iron corner	...	4	...	...	
Plates, iron front	...	2	...	...	
Plates, iron securing tool box	...	4	...	...	
Plates, iron striking ...	...	1	..	...	
Plates, iron strap, side ...	...	2	...	...	
Plates, steel angle, supporting ammunition carriers	...	10	...	...	
Plates, steel strap, nib iron, tailboard	...	2	...	...	
Sockets, steel angle left ...	...	1	...	...	
Sockets, steel angle right ...	...	1	...	...	
Sockets, steel guard plain	...	2	...	...	
Boxes, ammunition—*					
Boxes, ammunition, steel, without fittings	...	1	...	...	
Guards, steel near ...	...	1	...	...	
Guards, steel off... ...	...	1	...	...	
Keys, tail or lid	...	2	...	...	
Boxes, tool complete* ...	...	1	...	...	
Bolts, securing box, ammunition, with nut and split key*	...	8	...	...	
Brackets, iron, supporting axletree, springs*	...	4	...	...	

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* For Mark I limber only.

† For Mark II limber only.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued.*

TABLE 18—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Limbers, Q.F., 3-pr., travelling—*continued.*					
Carriers ammunition, wood*	...	10	...	...	
Collars, iron, tube, spring† ...	...	2	...	...	
Futchels, steel, angle, centre*	...	2	...	...	
Futchels, steel, angle, side* ...	...	2	...	...	
Futchels, steel, centre†	...	1	...	...	
Futchels, steel, side†	...	2	...	...	
Hooks, iron limber, No. 16†...	...	1	...	...	
Hooks, iron limber, ,, 17*...	...	1	...	...	
Irons, scroll, front†	...	2	...	...	
Irons, scroll, rear†	...	2	...	...	
Keys, iron, split, round, loop head, 1/16-in. × 1-in.* ...	...	8	...	...	
Keys, iron, split, round, loop head, 3/16-in. × 1¼-in.*...	...	4	...	...	
Keys, iron, split, round, loop head, ¼-in. × 2-in.	...	1	...	...	
Keys, iron, split, round, loop head, ¼-in. × 1½-in.* ...	...	8	...	...	
Keys, steel, limber, hook, with chain, No. 10†...	...	1	...	1 to 5	
Keys, steel, limber, hook, with chain, No. 11*...	...	1	...	1 to 5	
Loop, steel, draught, double†... ...	...	1	...	...	
Loop, steel, draught, single † ...	...	1	...	...	
Loop, steel, draught, single * ...	...	4	...	...	
Pins, bracket, supporting spring, with collar and split key*	...	4	...	...	
Pins, iron, linch, 3rd class ...	...	2	...	...	
Pins, steel, shaft, No. 26 shaft...	...	1	...	1 to 5	
Plates, steel, clip, spring	...	2	...	...	
Plates, steel, connecting, rear*	...	1	...	...	
Plates, steel, coupling, spring, with stop†	...	4	...	...	
Plates, steel, sweep, rear*... ..	...	1	...	...	
Plates, metal, inscription, with screws*	...	1	...	...	
Props, shaft	...	2	...	...	
Shafts, No. 26, near	...	1	...	...	
Shafts, ,, 27, off	...	1	...	...	
Sockets, steel, draught, near†	...	1	...	...	
Springs, steel, side	...	2	...	...	
Staples, iron, round, crowned, small†	...	6	...	...	
Staples, iron, spring, with nuts and split keys	...	4	...	...	
Staples, steel, shaft, near ...	...	1	...	...	
Staples, steel, shaft, off	...	1	...	...	
Stays, iron footboard* ...	...	3	...	...	
Stays, steel diagonal† ...	...	2	...	...	
Washers, drag. 3rd class, B ...	...	1	...	...	
Wheels, 3rd class B, No. 52...	...	2	...	...	

* For Mark I limber only. † For Mark II limber only.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued.*

TABLE 18—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Limbers, Q.F., 3-pr., travelling—*continued.*					
LEATHERWORK.					
Leathers for guards, box, ammunition	...	2	...	...	
Straps 1-in. × 10-in. ...	...	2	...	...	
Straps 3-in. × 58-in. ...	...	1	...	...	
Ties, linch pin	...	2	...	...	
Ties, tail or lid, box, ammunition*	...	2	...	...	
Woolwich Section, No. 16.					
Boxes, spare parts and implements, Q.F., Hotchkiss, 3-pr.	1 per gun	...	...	...	
Clamps, tangent sight, automatic, Q.F., Hotchkiss, 3-pr.	...	1	...	1 to 5	
Ordnance, Q.F., Hotchkiss, 3-pr., Mark II	As authorised	...	...	...	
Bushes, plate, wedge... ...	...	...	2	...	
Cranks	...	1	...	1 to 5	
Crank-handles	...	1	...	1 to 10	
Extractors	...	1	1	...	
Hammers, firing	...	1	1	...	
Pins, firing	...	...	6	...	
Plates, wedge	...	...	...	1 to 5 or less No. of wedges allowed	For guns fitted with interchangeable wedge plates.
Rocking-shafts	...	1	...	1 to 10	
Screws, fixing, bracket, trigger...	...	...	3	...	
Screws, set, crank-handle ...	...	...	1	...	
Screws, preserving stud, shoulder piece, steadying	...	1	...	...	
Screws, preserving stud, shoulder piece, fixing	...	1	...	...	
Screws, stop, wedge ...	...	1	1	...	
Springs, crank-handle ...	...	...	1	...	
Springs, main	...	1	4	...	
Springs, trigger-sear ...	...	1	2	...	
Studs, shoulder piece, fixing ...	...	1	...	1 to 10	
Studs, shoulder piece, steadying	...	1	...	1 to 10	
Trigger-sears	...	1	1	...	
Wedges	...	1	...	1 to 10	
IMPLEMENTS.					
Brushes, sponge, without rod	1 per gun...	...	...	...	
Cans, oil‡	1 ,,	...	...	...	
Drivers, screw	1 ,,	...	...	...	
Extractors, hand	1 ,,	...	...	...	

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* For Mark I limber only.

‡ *See* footnote * on page 262.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark II, on Travelling Carriages—*continued*.

TABLE 13—*continued.*

	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 16—continued.					
Ordnance, Q.F., Hotchkiss. 3-pr., Mark II—*continued.*					
Rods, brush, sponge ...	1 per 2 or less number of guns	...	...	...	
Tommies...	1 per gun	...	...	...	For dismounting.
Sights fore	...	1	...	1 to 5	
Sights tangent (with range strip)	...	1	...	1 to 5	
Woolwich Section, No. 18.					
Covers, breech, Q.F., 3-pr. ...	1 per gun	...	...	...	
Ropes, drag, light ... pairs	1 ,,	...	...	...	
Tampeons, Q.F., 3-pr.... ...	1 ,,	...	...	...	
Woolwich Section, No. 22A.					
Tools, reforming cartridges, Q.F. or Q.F.C. Gauges, chamber, low, 3-pr.	1 per sub-district	...	...	...	For gauging the cartridges before firing.

EQUIPMENT OF NORDENFELT, Q.F., 3-PR. GUN, MARK I, ON TRAVELLING CARRIAGES.

TABLE 14.

	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 5.					
Harness, General Service—Bands, belly	1 per travelling carriage fitted for farmers' draught.	...	...	...	
Woolwich Section, No. 11.					
Oil, mineral ... ... pints	As required			...	For hydraulic buffers.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13.					
Carriages, Q.F., 3-pr., travelling	1 per gun.	...	...	...	
Axletrees, steel, 3rd class B, No. 56	...	1	...	...	
Bearings, metal, bolt, stay, tensile	...	2	...	...	
Bearings, metal, screw, traversing	...	2	...	...	
Bolts, steel, clip, axletree, with nut and split key	...	4	...	...	
Bolts, steel, spring, supporting gear, with collar, nut, and split key*	...	1	...	...	
Bolts, steel, stay, tensile, with collar, nut, and split key	...	1	...	...	
Boxes, trail, complete ...	...	1	...	...	
Brackets, metal, screw, brake, tension rod†	...	1	...	...	
Brackets, steel, supporting seat, left	...	1	...	...	
Brackets, steel, supporting seat, right	...	1	...	...	
Carriage, body without fittings	...	1	...	...	
Clips, steel, axletree*	...	2	...	...	
Clips, steel, axletree, left†	...	1	...	...	
Clips, steel, axletree, right†	...	1	...	...	
Collars, iron, tube, bolt, stay, tensile	...	1	...	...	
Eyes, trail, No. 21*... ...	...	1	...	...	
Eyes, trail, ,, 22†... ...	...	1	...	...	
Guides, steel, shaft, brake, with split key†	...	2	...	...	
Handles, trail, lifting ...	...	2	...	...	
Keys, split round, loop, $\frac{3}{8}$-in. × $3\frac{3}{4}$-in.*	...	1	2	...	
Keys, split round, loop, $\frac{3}{8}$-in. × 3-in.†	...	5	2	...	
Keys, split round, loop, $\frac{1}{4}$-in. × $1\frac{3}{4}$-in.	...	7	1	...	
Keys, split round, loop, $\frac{1}{4}$-in. × 2 in. ...	...	7	1	...	
Keys, split round, loop, $\frac{3}{16}$-in. × $1\frac{3}{8}$-in.†	...	5	...	...	
Keys, split round, loop, $\frac{1}{16}$-in. × $\frac{3}{4}$-in. ...	...	4	...	...	
Pins, steel, linch, 3rd class ...	...	2	1	...	
Plates, metal, with screws, inscription ...	...	1	...	...	
Plates, metal, with screws, instruction ...	...	1	...	...	
Seats, wood	...	2	...	...	
Sockets, metal, carrying handspike	...	1	...	...	
Sockets, metal, traversing ,,	...	1	...	...	
Springs, steel, supporting gear*	...	1	...	...	
Staples, metal, traversing handspike	...	1	...	...	
Stays, steel, tensile, with collar and nut*, left	...	1	...	...	
Stays, steel, tensile, with collar and nut*, right	...	1		...	
Stays, steel, tensile, with collar, nut, and key†, left	...	1	...	...	
Stays, steel, tensile, with collar, nut, and key†, right	...	1	...	...	
Washers, drag, 3rd class B ...	...	2	1	...	

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* For Mark I carriage only. † For Mark II carriage only.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Carriages, Q.F., 3-pr., travelling—*continued.*					
Wheels, 3rd class B, No. 52	...	2	...	...	
Gear, brake—					
Blocks, wood, brake	...	2	...	...	
Brackets, steel, shaft, brake† left	...	1	...	...	
right	...	1	...	...	
Collars, metal, jamming india-rubber pad*	...	2	...	...	
Hooks, steel, brake*	...	1	...	...	
Levers, steel, brake†	...	1	...	...	
Links, steel†	...	2	...	...	
Nuts, metal, screw, brake rod, tension†	...	1	...	...	
Pads, india-rubber, with metal bush*	...	2	1	...	
Pins, steel, with split key lever brake†	...	1	...	...	
links†	...	2	...	...	
rods, connecting brake†	...	2	...	...	
rods, adjusting brake*	...	2	...	...	
Plates, iron connecting plate loop†	...	1	...	...	
loop, stays, supporting brake†	...	2	...	...	
Rods, steel adjusting brake with nuts and split key*	...	2	...	...	
connecting brake†	...	2	...	...	
Screws, steel, brake rod tension†	...	1	...	...	
Shafts, steel brake, with collars and metal bushes*	...	1	...	...	
brake†	...	1	...	...	
Shoes, steel brake block, with screws*	...	2	...	...	
brake block, with split key†	...	2	...	...	
Springs, steel, india-rubber pad*	...	2	...	...	
Stays, iron, supporting brake†	...	2	...	...	
Wheels, metal, hand, with taper pin†	...	1	...	...	
Gear, elevating—					
Nuts, metal, elevating	...	1	...	...	
Screws, steel, elevating, No. 88, with nut and pin	...	1	...	...	
Sockets, metal, nut, elevating	...	1	...	...	

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* For Mark I carriage only.

† For Mark II carriage only.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Carriages, Q.F., 3-pr., travelling—*continued.*					
Gear, elevating—*continued.*					
Trunnions, steel, socket, nut elevating	...	2	...	...	
Wheels, metal, hand ...	...	1	...	...	
Gear, traversing—					
Brackets, metal, screw, traversing	...	1	...	...	
Screws, metal, lubricating, $\frac{5}{16}$-inch boss head*	...	4	...	...	
Screws, steel, traversing, with collar, nut and split keys	...	1	...	...	
Wheels, metal, hand	...	1	...	...	
Pivot—					
Capsquares, metal	...	2	...	...	
Nuts, steel, holding down pivot, with split key	...	1	...	...	
Pivots, M.C.S., without fittings	...	1	...	...	
Screws, steel, capsquare ...	...	2	...	1 to 5	
Shields, steel, with bolts and split keys	...	1	...	...	
Socket, with 2 hydraulic buffers—					
Caps, metal, hydraulic buffers	...	2	...	...	
Glands, metal, hydraulic buffers	...	2	...	...	
Pistons, steel, with rod, hydraulic buffers, with nuts and split key	...	2	...	...	
Plugs, filling hole, hydraulic buffer, No. 31, steel; also emptying (2 plugs with 1 connecting chain and loop to a set) sets	...	2	...	1 to 5	
Rings, packing hydraulic buffer, leather U section	...	2	2	...	
Sockets, metal, without fittings	...	1	...	...	
Springs, steel, spiral, cylinders, hydraulic buffers	...	2	...	1 to 5	
Strips, metal, cylinders, hydraulic buffers	...	4	...	...	
Washers, packing, hydraulic buffers, leather (set of 6), sets	...	1	1	...	
Straps, securing, leather 1-in. × 44-in. D.L.	...	1	...	...	
Straps, securing, leather 1-in. × 13-in. ...	...	2	...	...	
Ties, linch pin	...	2	...	...	

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* For Mark II limber only.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Carriages, Q.F., 3-pr., travelling—*continued.*					
IMPLEMENTS.					
Cans, lubricating, No. 9 ...	1 per carriage.	...	...	...	
Drifts, steel	1 „	...	...	...	
Hammers, 28 oz.	1 „	...	...	...	*See* Appendix IX, pages 168 to 182.
Spanners, hydraulic buffer, No. 63	...	...	...	...	
Spanners, hydraulic buffer, „ 64	...	...	...	...	
Spanners, hydraulic buffer, „ 65	...	...	...	...	
Spanners, McMahon, 12-in.	1 per carriage.	...	...	...	
Handspikes, traversing, No. 3	1 „	...	1	...	
Limbers, Q.F., 3-pr., travelling	1 „	...	...	...	
Axletrees, steel, 3rd class B, No. 57* ...	...	1	...	...	
Axletrees, steel, 3rd class B, „ 175† ...	...	1	...	...	
Bars, steel, channel rear† ...	...	1	...	...	
Bars, steel, splinter	...	1	...	...	
Bands, iron, axletree, with bolts and nuts†	...	2	...	...	
Bearings, steel, axletree† ...	...	2	...	...	
Boards, foot*	...	1	...	...	
Boxes, ammunition, and tool—†					
Boards, bottom	...	5	...	...	
Boards, box, ammunition, front	...	1	...	...	
Boards, box, ammunition, rear (also tail-board)	...	1	...	...	
Boards, box, ammunition, side	...	2	...	...	
Boards, box, ammunition, top	...	1	...	...	
Boards, box, tool, front	...	1	...	...	
Boards, box, tool, side	...	2	...	...	
Boards, box, tool, top, in 2 pieces (also footboard)	...	1	...	...	
Chains, iron, tailboard with loop	...	2	...	...	
Guards, steel...	...	2	...	...	
Hasps, iron, box, tool ...	...	1	...	...	
Hinges, steel, „ „ ...	...	2	...	...	
Irons, nib, strap, side ...	...	2	...	...	
Joints, steel, tailboard ..	...	2	...	...	
Keys, iron, with chain, guards ...	...	4	...	...	
Keys, iron, with chain, tailboard ...	...	2	...	...	
Plates, iron, corner	...	4	...	...	
Plates, iron, front	...	2	...	...	
Plates, iron, securing tool box	...	4	...	...	
Plates, iron, striking	...	1	...	...	
Plates, iron, strap, side... ...	...	2	...	...	

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* For Mark I limber only.

† For Mark II limber only.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Limbers, Q.F., 3-pr., travelling—*continued.*					
Boxes, ammunition and tool—*continued.*					
Plates, steel, angle, supporting ammunition carriers	...	10	...	...	
Plates, steel, strap, nib iron, tailboard	...	2	...	...	
Sockets, steel, guard, angle, left ...	...	1	...	...	
Sockets, steel, guard, angle, right ...	...	1	...	...	
Sockets, steel, guard, plain	...	2	...	...	
Boxes, ammunition—*					
Boxes, ammunition, steel, without fittings	...	1	...	...	
Guards, steel, near	...	1	...	...	
Guards, steel, off	...	1	...	...	
Keys, tail or lid	...	2	...	...	
Boxes, tool, complete* ...	...	1	...	...	
Bolts, securing box ammunition, with nut and split key*	...	8	...	...	
Brackets, iron, supporting axletree springs*	...	4	...	...	
Carriers, ammunition wood*	...	10	...	...	
Collars, iron, tube, spring†...	...	2	...	...	
Futchels, steel, angle, centre*...	...	2	...	...	
Futchels, steel, angle, side* ...	...	2	...	...	
Futchels, steel, centre†	...	1	...	...	
Futchels, steel, side†	...	2	...	...	
Hooks, iron, limber, No. 16† ...	...	1	...	...	
Hooks, iron, limber, ,, 17* ...	...	1	...	...	
Irons, scroll, front†... ...	...	2	...	...	
Irons, scroll, rear†	...	2	...	...	
Keys, iron, split, round, loop head, $\frac{1}{10}$-in. × 1-in.* ...	...	8	...	...	
Keys, iron, split, round, loop head, $\frac{3}{16}$-in. × $1\frac{1}{4}$-in.* ...	...	4	...	...	
Keys, iron, split, round, loop head, $\frac{1}{4}$-in. × 2-in. ...	...	1	...	...	
Keys, iron, split, round, loop head, $\frac{1}{4}$-in. × $1\frac{1}{2}$-in.* ...	...	8	...	...	
Keys, steel, limber hook, with chain, No. 10† ...	...	1	...	1 to 5	
Keys, steel, limber hook, with chain, No. 11* ...	...	1	...	1 to 5	
Loops, steel, draught, double† ...	...	1	...	...	
Loops, steel, draught, single † ...	...	1	...	...	
Loops, steel, draught, single * ...	...	4	...	...	
Pins, bracket, supporting, spring, with collar and split key*	...	4	...	...	
Pins, iron, linch, 3rd class ...	...	2	...	...	
Pins, steel, shaft, No. 26 shaft	...	1	...	1 to 5	
Plates, steel, clip, spring	...	2	...	...	
Plates, steel, connecting, rear*	...	1	...	...	
Plates, steel, coupling, spring, with stop*	...	4	...	...	
Plates, steel, sweep, rear	...	1	...	...	

* For Mark I limber only.

† For Mark II limber only.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 13—continued.					
Limbers, Q.F., 3-pr., travelling—*continued.*					
Plates, metal, inscription, with screws	...	1	...	...	
Props, shaft	...	2	...	...	
Shafts No. 26, near... ...	...	1	...	...	
Shafts No. 27, off	...	1	...	...	
Sockets, steel, draught, near†	...	1	...	...	
Springs, steel, side	...	2	...	...	
Staples, iron, round, crowned, small†	...	6	...	...	
Staples, iron, spring, with nuts and split keys	...	4	...	...	
Staples, steel shft near ...	...	1	...	...	
Staples, steel shft off	...	1	...	...	
Stays iron, footboards* ...	...	3	...	...	
Stays steel, diagonal† ...	...	2	...	...	
Washers, drag, 3rd class B ...	...	1	...	...	
Wheels, 3rd class, B No. 52 ...	...	2	...	...	
LEATHER WORK.					
Leathers for guards, box, ammunition	...	2	...	...	
Straps 1-in. × 10-in. ...	...	2	...	...	
Straps 3-in. × 58-in. ..	...	1	...	...	
Ties linch pin...	...	2	...	...	
Ties tail or lid box, ammunition*	...	2	...	...	
Woolwich Section, No. 16.					
Boxes, spare parts and implements, Q.F., Nordenfelt, 3-pr.	1 per gun	...	...	...	
Clamps, tangent sight, Q.F., Nordenfelt, 3-pr.	...	1	...	1 to	
Ordnance, Q.F., Nordenfelt, 3-pr., Mark I	As authorised	...	...	...	
Action-cams	...	1	...	...	
Action-pins	...	1	...	...	
Blocks, breech	...	1	...	...	
Brackets, trigger	...	1	...	1 to 5	
Extractors	...	1	...	1 to 5	
Indicators, drill stop... ...	...	1	...	...	
Levers, breech mechanism ..	...	1	...	...	
Levers, trigger...	...	1	...	1 to 5	
Pins, firing	...	1	6	...	
Screws, fixing, bracket, trigger	...	...	4	...	

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* For Mark I limber only.

† For Mark II limber only.

Equipment of Nordenfelt, Q.F., 3-pr. Gun, Mark I, on Travelling Carriages—*continued.*

TABLE 14—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 16—continued.					
Ordnance, Q.F., Nordenfelt, 3-pr., Mark I—*continued.*					
Springs { indicator, drill stop	...	...	2	...	
Springs { main	...	1	4	...	
Tappets, lever, trigger ...	...	1	...	1 to 5	
Triggers	...	1	1	...	
Wedges	...	1	...	...	
IMPLEMENTS.					
Brushes, sponge, without rod	1 per gun	...	...	...	
Cans, oil*	1 ,,	...	...	...	
Drifts { brass	1 ,,	...	...	...	
Drifts { steel	1 ,,	...	...	...	
Drivers, screw (double ended)	1 ,,	...	...	...	
Hammers	1 ,,	...	...	...	
Rods, brush, sponge	1 per 2 or less number of guns	...	...	...	
Tommies	1 per gun	...	...	...	
Sights { fore	...	1	...	1 to 5	
Sights { tangent (with range strip)	...	1	...	1 to 5	
Woolwich Section, No. 18.					
Covers, breech, Q.F., 3-pr. ...	1 per gun	...	...	...	
Ropes, drag, light ... pairs	1 ,,	...	...	...	
Tampeon, Q.F., 3-pr.	1 ,,	...	...	...	
Woolwich Section, No. 22A.					
Tools, reforming cartridges, Q.F. or Q.F.C.					
Gauge chamber, low, 3-pr.	1 per sub-district	...	...	...	For gauging the cartridge before firing.
Lanyards, Q.F., 3-pr., Nordenfelt	2 per gun	...	...	...	

* See footnote * on page 262.

EQUIPMENT OF HOTCHKISS, Q.F., 3-PR. GUN, MARK I*, ON ELASTIC FRAME STANDS.

TABLE 15.

	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 14.					
Pivots, Q.F., 3-pr., Hotchkiss (Mark II)	As authorised	...	...	...	
Pivot—*					
Capsquares, metal, left	...	1	...	...	
Capsquares, metal, right... ...	...	1	...	...	
Pivots, metal	...	1	...	...	
Screws, steel, capsquare ...	...	3	...	...	
Screws, steel, clamping capsquare, with handle	...	1	...	1 to 5	
Screws, steel, holding down pivot	...	1	...	1 to 5	
Washers, steel, friction ...	...	1	...	...	
Wedges, steel, for shield, with set screw, left ...	...	1	...	...	
Wedges, steel, for shield, with set screw ... right ...	...	1	...	...	
Shield—					
Pins, steel, stays supporting, with collar and split key	...	2	...	...	
Shield, steel, without fittings	...	1	...	...	
Stays, steel, supporting shield, with collar and nut	...	2	...	...	
Plates, base, Q.F., 3-pr., elastic stand	As authorised	...	...	...	
Plates, steel, anchoring ...	...	1	...	...	
Plates, steel, base	...	1	...	...	
Bolts, holding down	...	8	...	...	
Stand, frame, elastic, Q.F., 3-pr. (Mark I)	As authorised	...	...	...	
Bolts, hexagon head with nuts	...	14	...	...	
Screws, hexagon head ...	...	10	...	...	
Screws, securing pivot ...	...	1	...	...	
Stands, iron, elastic, with fixed metal bush	...	1	...	...	
Woolwich Section, No. 16.					
Boxes, spare parts and implements, Q.F. Hotchkiss, 3-pr.	1 per gun	...	...	...	
Clamps, tangent sight, Q.F., Hotchkiss, 3-pr.	...	1	...	1 to 5	
Ordnance, Q.F. Hotchkiss, 3-pr., Mark I*	As authorised	...	...	...	
Buffer tubes	...	...	...	1 to 10	
Bushes, plate, wedge... ...	...	...	2	...	
Cranks	...	1	...	1 to 5	
Crank-handles	...	1	...	1 to 10	
Extractors	...	1	1	...	
Hammers, firing	...	1	1	...	

~~* One spare pivot is allowed to each station abroad, to be~~ held in Army Ordnance charge.

Equipment of Hotchkiss, Q.F., 3-pr. Gun, Mark I*, on Elastic Frame Stands—*continued.*

TABLE 15—*continued.*	Proportions.	Components.	Spare.		Remarks.
			Per gun.	To number of guns or less per work.	
Woolwich Section, No. 16—continued.					
Ordnance, Q.F., Hotchkiss, 3-pr., Mark I*—*continued.*					
Hooks, drill	...	...	1	...	
Pins, firing	...	...	6	...	
Plates, wedge	...	...	...	1 to 5 or less number of wedges allowed	For guns fitted with interchangeable wedge plates.
Rocking shafts...	...	1	...	1 to 10	
Screws, pivot, trigger ...	...	...	1	...	
Screws, set, crank-handle	...	...	1	...	
Screws, stop, wedge ...	...	1	1	...	
Screws, fixing trigger-guard	...	...	3	...	
Shoulder-pieces	...	1	...	1 to 10	
Springs, crank-handle ...	...	...	1	...	
Springs, main	...	1	4	...	
Springs, trigger-sear ...	...	1	2	...	
Studs, shoulder-pieces, fixing ...	...	1	...	1 to 10	
Studs, shoulder-pieces, steadying	...	1	...	1 to 10	
Triggers	...	1	...	1 to 5	
Trigger-guards...	...	1	...	1 to 5	
Trigger-sears	...	1	1	...	
Wedges, steel, with wedge plate	...	1	...	1 to 10	For guns fitted with interchangeable wedge plates.
Wedges, steel	...	1	...	1 to 10	For guns not fitted with interchangeable wedge plate
IMPLEMENTS.					
Brushes, sponge, without rod	1 per gun	...	...	...	
Cans, oil*	1 per gun	...	...	...	
Drivers, screw	1 ,,	...	...	...	
Extractors, hand	1 ,,	...	...	...	
Rods, brush, sponge	1 per 2 or less number of guns	...	...	...	
Tommies	1 ,,	...	...	...	For dismounting.
Sights, fore, Hotchkiss, 3-pr.	...	1	...	1 to 5	
Sights, tangent, Hotchkiss, 3-pr. (with range strip)	...	1	...	1 to 5	
Woolwich Section, No. 18.					
Covers, breech, Q.F., 3-pr. ...	1 per gun	...	...	...	

See footnote * on page 262.

TOOLS, ORDNANCE.

TABLE 16.	Proportions.	Remarks.
TOOLS, ORDNANCE.		
Tools for cleaning, painting, and lacquering Q.F. guns ... sets	1 per district	For detail of tools, *see* Table A, pages 54 and 55.

AMMUNITION, &c., FOR HOTCHKISS AND NORDENFELT QUICK-FIRING ORDNANCE.

TABLE 17.	Proportions.	Remarks.
Woolwich Section, No. 22A.		
Boxes, ammunition, Q.F. { 6-pr. 11 ...	46 per gun.	
{ 3-pr. 16 ...	32 ,,	
Cartridges, Q.F.*† { 6-pr., steel shell	506 ,,	
{ 3-pr., ,,	512 ,,	
Clips, cartridge, Q.F. { 6-pr.	506 ,,	1 issued on the base of each cartridge.
{ 3-pr.	512 ,,	

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* These proportions will be gradually introduced as existing stock of iron shell ammunition is used up for practice.

† Empty cases are always to be cleaned as soon as possible after firing. Regulations for Magazines, etc.

The service cases, when dry, are to be repacked, together with the clips, in the boxes in which they were supplied, and returned into store. The fired cases are not, on any account, to be repacked in boxes containing unfired cartridges.

Note.—6-pr. and 3-pr. ammunition will only be issued in complete boxes.
Boxes are on no account to be opened to make up issues.

GUNS, GARDNER, 2-BARREL, AND GUNS, NORDENFELT, 3-BARREL, ·303-INCH, CONVERTED, ON CARRIAGES PARAPET, MACHINE GUN, AND CARRIAGE, FIELD MACHINE GUN, INFANTRY, NORDENFELT, 3-BARREL.

TABLE 18.	Proportions.	Remarks.
Woolwich Section, No. 13.		
Carriages, field, machine gun, infantry, Nordenfelt, 3-barrel	As authorised	Also Gardner, 2-barrel.
Cans, lubricating, No. 9, in leather case	1 per carriage.	
SPARE PARTS.		
Keys { flat, L-head with chains, stud, and split key	2 per carriage.	
Keys { split, round, loop { 2-in. × 1·625-in. ...	2 ,,	
Keys { split, round, loop { 2-in. × 1·125-in. ...	2 ,,	
Nuts, shaft bolt	2 ,,	

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Machine Guns—*continued.*

	TABLE 18—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 13—contd.		
	SPARE PARTS—*continued.*		
	Pads, ammunition box	6 per carriage.	
	Pins, ammunition box, with chain	2 ,,	
57 3 9184	**Pins**, joint, for crosshead	1 ,,	For guns, Gardner, 2-barrel only.
	Pins, joint, for elevating screw, with pin	1 ,,	
	Pins, linch, 3rd class	1 ,,	
	Screws, set, pedestal	1 ,,	
	Ties, linch pin, leather	2 ,,	
	Ties, pin, ammunition box	2 ,,	
	Washers, drag, 3rd class	1 ,,	
	Woolwich Section, No. 18.		
	Ropes, drag, light, carriage, field, machine gun, infantry pairs	1 per carriage.	
	INTRENCHING TOOLS.		
	Woolwich Section, No. 2.		
	Axes, felling, curved helves	1 per carriage.	
	Axes, pick, heads, 6½-lb.	1 ,,	
	Axes, pick, helves, 34½ inches	1 ,,	
	Spades, N.P.	2 ,,	
	Woolwich Section, No. 16.		
	Chests, Gardner, ·303-inch, converted, 2-barrel*, field mounting	1 per gun.	
... 9184	**Chests,** Gardner, ·303-inch, converted, 2-barrel*, pack transport gun	1 ,,	For field mounting, infantry.
	Chests, Gardner, ·303-inch, converted, 2-barrel*, trail boxes	1 ,,	For two, and two cartridge-holder boxes, mule equipment.
	Plugs, field carriage wheels, Gardner, 2-barrel, pack transport*	2 ,,	For naves of wheels.
... 9184	**Carriages,** parapet, machine gun	As authorised	With 1 small tool case.
	SPARE PARTS.		
	Screws, clamping	1 per carriage.	
	Springs, brake	2 ,,	
	Springs, traversing handle	1 ,,	
	IMPLEMENTS.		
	Spanners, shifting	1 per carriage.	
	Tommies	2 ,,	
	Chests, Gardner, ·303-inch, converted, 2-barrel*, crosshead	1 per gun	For parapet mounting.
... 9184	**Chests,** Gardner, ·303-inch, converted, 2-barrel*, gun, parapet, carriage	1 ,,	
	Chests, Gardner, ·303-inch, converted, 2-barrel*, stem	1 ,,	For parapet mounting.
	Plugs, parapet carriage wheels, Gardner, 2-barrel*	2 per gun	For naves of wheels.
... 9184	**Guns, Gardner, ·303-inch, converted (Mark I), 2-Barrel.**	As authorised	With 1 Cartridge-feeder, 60 Cartridge-holders in 3 Cartridge-holder Boxes, for parapet carriage, 96 cartridge holders for carriage, field, infantry, and 1 Stop-off Block.

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* For transport and storage purposes.

Machine Guns—*continued.*

TABLE 18—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 16—cont.			
SPARE PARTS.			
Barrels	1 per gun.		57 3 9184
Cartridge feeder	1 ,,	For carriages, field, infantry.	
Extractors	4 ,,		
Hammers	1 ,,		
Handles, crank...			
Locks left			
Locks right			
Pins extractor	4 ,,		
Pins firing			
Reflectors, mirror, ·303-inch, M.G.	1 per 5 or less number of guns per work, or 1 per 5 guns allotted to general defence purposes in a district.		... 9184
Sights fore	1 per gun.		
Sights tangent			
Springs extractor guide plate ...	2 ,,		... 9184
Springs lock	4 ,,		
Springs tangent sight	1 ,,		
IMPLEMENTS.			
Drifts 6-in. × $\frac{11}{16}$-in.	1 per gun.		
Drifts 6-in. × $\frac{7}{16}$-in.			
Drifts 6-in. × $\frac{9}{32}$-in.			
Plugs, clearing, guns, machine, ·303-inch, Mark I			
Punches $\frac{5}{32}$-in.			
Punches $\frac{3}{16}$-in.			
Rods, cleaning, guns, machine, ·303-inch, Mark I			
Spanners			
Tommies		For removing extractor guide plate springs.	... 9184
Twisters, barrel			
Guns, **Nordenfelt**, **3-Barrel**, **·303-in., converted (Mark I)**	As authorised.		57 3 9184
Boxes, spare parts and implements	1 per gun.		
SPARE PARTS.			
Barrels	1 per gun.		
Catches, hopper	1 ,,		
Distributors			
Extractors	3 ,,		
Feed-guides	1 ,,		
Hammers	3 ,,		
Levers, hand	1 ,,		
Pins, firing	3 ,,		
Sights fore	1 ,,		
Sights tangent			
Springs lock	,,		
Springs tangent sight	1 ,,		
Springs trigger comb	2 ,,		

Machine Guns—*continued*.

	TABLE 18—*continued*.	Proportions.	Remarks.
	Woolwich Section, No. 16—cont.		
	IMPLEMENTS.		
	Cans, oil	1 per gun.	
	Drifts	2 ,,	
	Drivers, screw	1 ,,	
...	**Plugs**, clearing, Mark I, guns, machine, ·303-in.		
9184	**Rods**, cleaning, Mark I, guns, machine, ·303-in.		
	Reflectors, mirror, M.G., ·303-inch	1 per 5 guns or less number of guns per work, or 1 per 5 guns allotted to general defence purposes.	
	Chests, Nordenfelt, ·303-in., converted, 3-Barrel* feed boxes gun	1 per gun.	

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* For transport and storage purposes.

GUNS, MAXIM, ·303-INCH, AND ·303-INCH CONVERTED, ON CARRIAGE, FIELD, MACHINE GUN, INFANTRY, MAXIM, CARRIAGE, PARAPET, MACHINE GUN, MAXIM, AND CONE MOUNTING FOR ·303-INCH.

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TABLE 19.	Proportions.	Remarks.	
Woolwich Section, No. 13.			
Carriage, field, machine gun, infantry, Maxim	As authorised.	With two tin boxes, two leather pockets, one water and one leather cover.	
Cans, lubricating, No. 9	1 per carriage.		
Boxes. belt, ammunition, Maxim,			57 Sts. Setts. 3381
No. 2	16 ,, Mark I ...		
No. 3	16 ,, Mark II ...		
SPARE PARTS.			
Mark I Carriage.			
Bolts, with nuts, securing top shield	1 per carriage.		
Keys split, round loop ·2-in. × 1·75-in. ...	2 ,,		
Keys split, round loop ·25-in. × 2·5-in. ...			
Keys split, round loop ·15-in. × 1·75-in. ...			
Keys split, round loop ·187-in. × 1·75-in....			
Nuts, bolt, bracket pivot, 1-inch ...	1 ,,		
Pins joint crosshead	1 ,, ...	Carried in leather pocket.	
Pins joint elevating gear ...	1 ,, ...		
Pins linch, 3rd class	1 ,,		
Pins taper ·187-in. × 1·625-in.	2 ,,		
Pins taper ·2-in. × 2-in. ...			
Propsticks	1 per 4 carriages.		
Shafts No. 29			
Shafts ,, 28			
Springs catch, securing carrier...	1 per carriage.		
Springs flat, clamp, traversing gear			
Ties, linch pin	2 ,,		
Washers, drag, 3rd class, B ...	1 ,,		
Mark II Carriage.			
Handle, jamming elevating nut	1 per carriage.		
Handle, jamming pivot	1 per 6 carriages.		
Keys clip, elevating bracket ...			
Keys split, round loop, ·125-in. × 1·25-in.	4 per carriage.		
Pins joint crosshead	1 ,, ,,	Carried in leather pocket.	57 Sts. Setts. 3381
Pins joint elevating gear... ...			
Pins linch, 3rd class, split			
Pins shaft, Nos. 36 and 37 shafts...			
Screws, elevating, No. 10	1 per 6 carriages.		
Shafts No. 36...			
Shafts ,, 37			
Swingletree, No. 10	1 per carriage.		54 Mach. Guns 402
Washers, drag, 3rd class, B... ...	1 ,, ,,		

Machine Guns—*continued.*

TABLE 19—*continued.*	Proportions.	Remarks.
Woolwich Section, No. 16.		
Belts, ammunition, Maxim, ·303-in.	16 per carriage.	
IMPLEMENTS.		
Woolwich Section, No. 7.		
Spanners, McMahon, 12-inch ...	1 per carriage.	
Woolwich Section, No. 18.		
Ropes, drag, light, carriage, field, machine gun, infantry pairs	1 per carriage.	
INTRENCHING TOOLS.		
Woolwich Section, No. 2.		
Axes felling, curved helve ...	1 per carriage.	
Axes pick heads, 6½-lb.... ...	1 ,,	
Axes pick helves, 34½ inches...	1 ,,	
Spades, N.P.	2 ,,	
Woolwich Section, No. 16.		
Carriages, parapet, machine gun, Maxim	As authorised.	With leather holder for spare joint pins.
Belts, ammunition, Maxim, ·303-in.	8 per parapet carriage.	
Boxes, belt, ammunition, Maxim, No. 1. (Mark II)	4 ,,	
SPARE PARTS.		
Pins joint, crosshead	1 per parapet carriage.	Carried in leather holder.
Pins joint, elevating gear ...	1 ,	
Pins linch	1 ,,	
Screws, stop	2 ,,	
Thongs, leather	1 ,,	
Washers, drag...	1 ,,	
Mountings, cone, Maxim	As authorised.	
Belts, ammunition, Maxim, ·303-in.	8 per mounting.	
Boxes, belt, ammunition, Maxim, No. 1, Mark II	4 ,,	
Shields	1 ,,	
Woolwich Section, No. 14.		
Handspikes, holding down ring ...	1 per work.	For cone mountings.

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Machine Guns—*continued.*

TABLE 19—*continued.*	Proportions.	Remarks.
SPARE PARTS—*continued.*		
Woolwich Section, No. 16.		
Pins, joint, crosshead	1 per mounting.	
Pins, joint, elevating gear ...	1 ,,	
Screws, keeper, sleeve	1 ,,	
Screws, set, nut, pins, joint crosshead	1 ,,	
Screws, spring, handle, clamping	1 ,,	
Springs, handle, clamping sleeve	1 ,,	
Springs, stop, brake	1 ,,	
Chests, Maxim*, ·303-in. converted gun	1 per gun.	For parapet carriages and cone mountings.
Chests, Maxim*, ammunition belt boxes	1 ,,	
Chests, Maxim*, ammunition belts ...	1 ,,	For Field carriages.
Chests, Maxim*, crosshead	1 ,,	For parapet carriages.
Chests, Maxim*, stem	1 ,,	
Chests, Maxim*, cone mounting	1 ,,	For cone mountings.
Chests, Maxim*, shield	1 ,,	
Plugs, parapet carriage wheels, Maxim* left ...	1 per gun.	For naves of wheels.
Plugs, parapet carriage wheels, Maxim* right ...		
Mountings, tripod, Maxim, Mark I	As authorised ...	With leather holder for spare joint pins.
Belts, ammunition, Mark II ...	7 per mounting.	
Boxes, belt, ammunition, No. 2, Mark I	7 ,,	
SPARE PARTS.		
Pins, joint, cross-head, with chain and stud	1 ,,	
Pins, joint, elevating gear, with spring split pin	1 ,,	
Springs, stop, brake	1 ,,	
Screws, spring, stop, brake... ...	1 ,,	
IMPLEMENTS.		
Axes, pick, heads, 6½ lb.	1 ,,	
Axes, pick, helves, 34½ inches ...	1 ,,	
Shovels, universal	1 ,,	

	Gun and Tripod Saddle.	Ammunition Saddle.	
PACKSADDLERY FOR TRIPOD MOUNTINGS.			
Packsaddlery, G.S.—			
Bits, bridoon	1	1	
Breechings, Mark III	1	1	
Chains, collar, G.S....	1	1	

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* For transport and storage purposes.

54
Arty.
7069

Machine Guns—*continued.*

54
Arty.
7069

TABLE 19—*continued.*	Gun and Tripod Saddle.	Ammunition Saddle.	Remarks.
Woolwich Section, No. 16—cont.			
PACKSADDLERY FOR TRIPOD MOUNTINGS—*continued.*			
Packsaddlery, G.S.—*continued.*			
Collars { breast, Mark III ...	1	1	
Collars { head, Mark III	1	1	
Cruppers, Mark III, small ...	1	1	
Girths, Mark III ... ... pairs	1	1	
Pannels, Mark IV ...small, pairs	1	1	
Reins, bridoon, Mark II	1	1	
Straps, girth, large	4	4	
Surcingles, Mark II...	1	1	
Packsaddlery, machine gun, ·303-in., also tripod mountings—			
Bars, side, hanging ... ... pair	1	...	Used only on gun saddle.
Cases, leather...	1	...	For spare gun barrel and cleaning rod, carried on top of box of spare parts.
Cap, shovel	...	1	
Covers, tripod	1	...	Leather.
Frames, wood	...	1	To be strapped on platform of saddle for carrying one spare ammunition box.
Girths, web	1	1	For hangers.
Hangers { gun and trail	1	...	For near side of saddle.
Hangers { tripod mounting ...	1	...	For off side of saddle.
Racks, ammunition boxes... ...	...	2	Each to carry 3 ammunition boxes, and for attaching pick and shovel.
Straps, girth, 1 in. × 16½ in. ...	4	4	For girth for hangers.
Trees, converted	1	1	Mark IV, small, G.S.

	Proportions.	
Guns, Maxim { ·303-inch	As authorised.	
Guns, Maxim { ,, converted, Mark I		
SPARE PARTS.		
Barrels, Mark II, with asbestos packing	1 per gun.	
Blocks, feed	1 ,,	
Boxes, spare parts and tools ...	1 ,,	
Chains, fuzee	2 ,,	For attaching fuzee spring to fuzee.
Corks, for plug*‖	2 ,,	
Gibs, Mark II‖	2 ,,	
Handles, crank	1 ,,	
Levers, extractor ... { left ...	1 ,,	
Levers, extractor ... { right		
Locks		
Pins, axis { lock, spring	2 ,,	
Pins, axis { sear	2 ,,	
Pins, axis { trigger	2 ,,	
Pins, axis { tumbler...	4 ,,	

57
8807

57
3
9184

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* For renewal of plugs, cork, barrel casing.

‖ Common to ·303-inch, and ·303-inch converted Maxim machine guns.

Machine Guns—*continued.*

TABLE 10—*continued.*	Proportions.	Remarks.	
Woolwich Section, No. 16—cont.			
Spare Parts—*continued.*			
Pins, firing	2 per gun.		
Pins, fixing, axis pin‖	24 ,,		
fuzee chain	2 ,,		
extractor, spring	4 ,,		
Plugs, complete, cork, for barrel, casing‖	1 per 2 guns.		
Sears	1 per gun.		
Sights, fore			
tangent			
Springs, buffer	4 ,,		
connecting rod	2 ,,		
cover	4 ,,		
cover lock‖	2 ,,		
ejecting tube			
extractor			
feed block	4 ,,		
feed block slide			
firing lever‖	2 ,,		
fuzee			51 M. G. 334
gib‖			
lock	4 ,,		
safety catch‖	2 ,,		
sear			
shutter*‖			
side plate			
tangent sight‖			
tangent sight slide			
trigger bar*			
Tumblers	1 ,,		
Triggers			
Implements.			
Balance, spring‖	1 ,,		
Drivers, screw, bent‖			
large‖			
small‖			
Funnels‖			
Hammers‖			
Keys, gib, gun-metal valve‖			
Pliers, cutting‖ ... pairs.			
Plugs, clearing, Mark I guns, machine ·303-inch‖	1 per gun.		
Punches (Nos. 1, 2, 3 and 4)‖	4 ,,		
Rods, cleaning (Mark I) guns, machine, ·303-inch‖	1 ,,		
Spanners, shifting‖			57 3 9184
Tools, belt, repairing‖			
Vessels, water‖			
Wrenches, pin‖			
Plugs, belt, Maxim ·303-inch	1 to 5 or less number of guns.	For opening pockets of ammunition belts.	
Reflectors, mirror, M. G., ·303-inch	1 per 5 or less number of guns per work, or 1 to 5 guns allotted to general defence purposes in a district.†		

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* For guns not fitted with Mark II rear crosspiece.

† At Malta 1 per battalion is allowed when armament machine guns are in infantry charge.

‖ Common to ·303-inch, and ·303-inch converted Maxim machine guns.

57
3
9184

Machine Guns—*continued.*

	TABLE 19—*continued.*	Proportions.	Remarks.
	Woolwich Section, No. 16—continued.		
	ARTICLES FOR REPAIR, &C.		
57	**Boxes**, strips and eyelets‖	2 per gun.	
M. G.	**Eyelets**, repairing belts‖	½-oz. ,,	
304	**Strips** long, N.P.‖	25 ,,	
77	**Strips** short ,, ‖	25 ,,	
6	**Packings**, Asbestos‖ 11 inches long ...pieces	4 ,,	
3088	**Packings**, Asbestos‖ 5 yards long ... ,,	2 ,,	
54	*Woolwich Section, No.* 27.		
M. G. 321 57 3 9184	**Flannelette,** 36 inches ...pieces	1 per gun per annum.	For cleaning bore.

‖ Common to ·303-inch, and ·303-inch converted Maxim machine guns.

AMMUNITION FOR GARDNER 3-BARREL, NORDENFELT, AND MAXIM ·303-INCH MACHINE GUNS.

TABLE 20.	Proportions.	Remarks.
Cartridges, small arm, ball, ·303-inch cordite	11,000 rounds per gun	10 complete boxes.

EQUIPMENT OF GUNS AND HOWITZERS FOR MOVABLE ARMAMENTS.

TABLE 21.	Proportions (per piece).																		Remarks
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5 inch.*	
Woolwich Section, No. 2.																			
Axes, felling, curved helve	1	1	...	...	1	1	...	...	...	...	...	...	1	1	1	1	1	1	
Buckets, water, G.S., leather	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	To hold water for damping the sponge, &c.
Colours camp	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...	For laying out the line of fire.
camp, Cases	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...	
Hooks, bill	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	
Implements, intrenching	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	
Lamps, tracing†	2	2	...	...	2	2	2	2	2	2	...	...	...	...	...	...	...	...	
Mauls, G.S.	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Posts picket, 5 feet	2	2	2	...	2	2	2	2	2	2	...	...	...	...	...	...	...	...	
,, 2½ ,,	...	...	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	For Clerk's platforms.

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* If required for Mountain or Colonial service they should be equipped with the details in Part 3—*War*, or with such portions of that equipment as may be considered necessary for the particular service for which they are required.

† Oil and wick for these supplied by Army Service Corps, as required.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150 lb.	2·5-inch.*	
Woolwich Section, No. 2—continued.																			
Axes, pick heads, 6½ lbs.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Axes, pick helves, 34½ inches	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	For use in laying Clerk's platforms.
Rammers, earth	...	...	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	
Shovels, universal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	
Spades, N.P.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	
Woolwich Section, No. 4.																			
Boxes, grease, 3 lb.	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	*b*	...	..	...	
Carts†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Limbers, sling wagon, 6 tons...	...	...	...	...	...	...	*g*	*g*	*g*	*g*	...	...	...	...	...	...	...	...	
Ties, linch pin	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	...	...	...	
Wagons, sling, 6 tons	...	...	...	...	...	...	*g*	*g*	*g*	*g*	...	...	...	...	...	...	...	...	
Wheels, 2nd class A., No. 15	...	...	...	...	...	...	...	...	...	...	*n*	*n*	...	...	...	...	...	...	

Woolwich Section, No. 5.																			
Brushes, water, carriage	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	For cleaning projectiles, &c.
Harness, G.S., Bands, belly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 for each carriage and wagon fitted for farmers' draught.
Woolwich Section, No. 7.																			
Chests, tool, filled No. 3 E.	*h*	*h*	...	...	*h*	*h*	*h*	*h*	*h*	*h*	...	...	*h*	*h*	*h*	...	...	...	*See* Appendix VII, pages 147 and 153.
Chests, tool, filled " 3 G.	...	...	*h*	*h*	...	...	...	...	...	...	*h*	*h*	...	...	...	...	...	...	
Cans, oil, lubricating G.S.‡	*a*	*a*	*a*	*a*	*a*	*a*	...	...	...	...	*a*	*a*	*a*	*a*	*a*	...	...	...	
Cans, oil, lubricating smith's‡	...	...	...	...	...	...	*d*	*d*	*d*	*d*	...	...	...	...	...	...	...	...	
Drivers, screw, G.S., 6-inch	1	1	1	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	
Files, second cut, half round, 8-inch	1	1	1	1	...	...	1	1	1	1	...	...	...	...	...	...	...	...	For general use.
Hammers, claw 28-oz.	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Hammers, claw 20-oz.	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	
Hammers, claw 14-oz.	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1	1	1	
Handles, file, small	1	1	1	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	
Knives, clasp	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Levels, F.S., 4 feet, Mark II.	*b*	*b*	*b*	...	*b*	*b*	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Lines, carpenters	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Pincers, carpenters ... pairs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	
Punches, R.B.L. guns, steel 13 inches	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	For removing keep-pins, &c.
Punches, R.B.L. guns, steel 6 "	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Reels, carpenters line	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Spanners, McMahon 15-inch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	For tightening nuts, &c.
Spanners, McMahon 9 "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	

a. 1 per 2 pieces or less number.
b. 1 per 3 pieces or less number.
d. 1 per 6 pieces or less number.
g. 1 per district if necessary.
h. 1 per district if necessary.
* See footnote * on page 299.
n. 1 per 6 or less number of carriages, &c., using these wheels.

† For guns and howitzers not provided with ammunition wagons, civil wagons will, where possible, be obtained locally for the transport of ammunition, on mobilisation. Where such cannot be obtained, special supplies of hand and trench carts will be authorised.

‡ When these cans become unserviceable they will be replaced by "Can, lubricating No. 9."

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 10.																			
Jacks, lifting { general service	...	...	...	...	...	...	...	...	...	...	*a*	*a*	*a*	*a*	*a*	...	...	...	
Jacks, lifting { screw, Clerk's	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	...	...	...	...	...	...	...	...	For general use.
Locks, pad, iron small	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	For axletree boxes.
Tarpaulins, 20 feet × 10 feet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per group of guns.
Woolwich Section, No. 11.																			
Chalk, white ... ... oz.	4	4	4	...	4	4	4	4	4	4	...	...	...	...	...	...	...	...	
Oil, mineral ... ...galls.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Sufficient to fill hydraulic buffers.
Woolwich Section, No. 13.																			
V. 1 Newcastle-on-Tyne Art. 1259 **Bolts** { box, screw, elevating R.M.L. 16-pr. hexagon head, ·437-in. diam. × 4-in. long; stee	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	} Spare, per 6 guns or less.
Bolts { hexagon head, ½-in. × 2-in., with 2 nuts; steel	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	

54 / Artillery / 6192	**Carriages,** field, R.B.L.	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
	Carriages, field, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	
	Cartouches, canvas, R.B.L.	...	...	...	8	...	...	...	...	...	...	8	8	...	...	...	...	...	...	
	Cartouches, canvas, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	8	...	8	...	...	...	
	Cartouches, canvas, R.M.L., limber and ammunition wagon, hind	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...	...	...	
	Cartouches, canvas, R.M.L., wagon, fore	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	
	Clippers, portfire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns.
57 / Malta / 336	**Handspikes,** traversing, No. 4	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	and 1 spare per 4 or less number of guns.
	Handspikes, traversing, ,, 6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	
	Handspikes, traversing, ,, 7	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
	Handspikes, traversing, ,, 8†	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1	...	...	...	
	Limbers, field, R.B.L., 20-pr., carriage	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Limbers, field, R.B.L., 20-pr., wagon	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Limbers, field, R.B.L., 12-pr., carriage	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
	Limbers, field, R.B.L., 12-pr., wagon	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
	Limbers, field, R.B.L., 9-pr., carriage	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	
	Limbers, field, R.B.L., 9-pr., wagon	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	
	Limbers, field, R.M.L., 16-pr.	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1 for carriage, and 1 for ammunition wagon.
	Limbers, field, R.M.L., 13-pr., carriage	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
	Limbers, field, R.M.L., 13-pr., wagon	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
	Limbers, field, R.M.L., 9-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1 for carriage, and 1 for ammunition wagon.
	Limbers, field, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 spare per group of guns for the spare ammunition wagon, except 13-pr.

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57 / Gen. No. / 6884

a. 1 per 2 pieces or less number.

* See footnote * on page 293.

† When the existing stock of these is used up, the No. 4 handspike will be issued.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

		Proportions (per piece).																		Remarks.
		Movable.										Mobile.								
		B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
						Guns.		Howitzer.									7-pr.*			
								8-inch.												
		5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
	Woolwich Section, No. 13—continued.																			
57 Gen. No.	**Pins** linch, 2nd class, steel ...	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	...	...	...	Spare.
7230	**Pins** shaft, No. 1 shaft	*i*	*i*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	,,
	Shafts No. 1	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	*i*	...	...	...	
	Shafts ,, 2	...	...	...	*i*	...	...	...	...	...	...	*i*	*i*	...	...	...	...	...	...	
V.	**Shafts** ,, 19†	...	...	...	...	...	*i*	...	...	...	...	...	...	*i*	*i*	*i*	...	...	...	
1 Newcastle-on-Tyne Art.	**Spindles** box, screw elevating, R.M.L., 16-pr. Mark I...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	Spare, per 6 guns or less.
1259	**Spindles** box, screw elevating, R.M.L., 16-pr. Mark II	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
	Sticks, portfire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns. To hold lighted portfire.
	Straps, securing 1¼-in. × 41-in. for sight pocket ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
	Straps, securing 1-in. × 18-in. for dismounting hammer ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	
	Straps, securing 1-in. × 18-in. for grease box	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	
	Swingletrees, No. 2	...	...	...	1	...	1	...	...	...	...	1	1	1	1	1	...	...	...	

57 Colchester 4400	**Wagons,** ammunition	...	...	...	1	...	...	...	...	...	...	1	1	1	1	1	...	...	...	A wagon spare per group of guns, except 13-pr. R.M.L.
57 Gen. No. 7230	**Washers**, drag, 2nd Class B......	...	...	...	*m*	...	*m*	...	...	...	...	*m*	*m*	*m*	...	*m*	...	...	...	Spare.
	Washers, drag, 2nd Class C, R.M.L. 13-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	*m*	...	...	...	...	
	Washers, loop, 2nd Class B ...	...	...	*m*	...	*m*	...	*m*	*m*	*m*	*m*	...	...	...	...	...	...	...	...	
	Washers, loop, 2nd Class C ...	*m*	*m*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Wheels, 2nd class‡, B, No. 24	...	...	...	...	...	...	...	...	...	...	...	...	*m*	...	...	...	...	...	
	Wheels, 2nd class‡, B, ,, 25	*m*	*m*	*m*	...	*m*	*m*	*m*	*m*	*m*	*m*	...	...	*m*	...	*m*	...	...	...	
	Wheels, 2nd class‡, B, ,, 23	...	...	...	...	...	...	...	...	...	...	...	...	...	*m*	...	...	...	...	
	Wheels, 2nd class‡, B, ,, 27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*m*	...	...	...	
	Wheels, 2nd class‡, C, ,, 39	*m*	*m*	*m*	...	*m*	*m*	*m*	*m*	*m*	*m*	...	...	*m*	...	*m*	...	...	...	
	Wheels, 2nd class‡, C, ,, 40	...	...	...	...	...	...	...	...	...	...	...	...	...	*m*	...	...	...	...	
	Woolwich Section, No. 14.																			
	Arms, radial, pivot, double-decked platform	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Bands, elevating, removable	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Boxes, limber, travelling	1	1	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	Per limber.
	Boxes, store, B.L., 5-in. and 4-in.	*k*	*k*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Boxes, tallow, B.L., limbers	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Carriages, travelling, B.L., 6-ft. parapet	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Carriages, siege, R.B.L., 40-pr., 6-ft. parapet ...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	For side closing guns.
	Carriages, siege, R.B.L., 40-pr., wood, with saddle...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Carriages, siege, R.M.L., 8-in. 70 cwt. howitzer, C.P.	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
	Carriages, siege, R.M.L., 8 ,, 46 ,, ,, ,,	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	
	Carriages, siege, R.M.L., 6·6-in. howitzer, C.P. ...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
	Carriages, siege, R.M.L., 6·3 ,, ,, ,, ..	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
	Carriages, siege, R.M.L., 40-pr., top, overbank ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Carriages, siege, R.M.L., 25 ,, ,, ,, ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	

...
7230

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i. 1 per 10 or less number of limbers, &c. *k*. 1 per 10 guns. *m*. 1 per 10 or less number of vehicles.

* See footnote * on page 299.

† Where the wheels have 10-inch pipe boxes, a "collar point" should be demanded with this shaft.

‡ If the axletrees have been altered for the 11-inch pipe boxes, the wheels, 2nd class "B," shown in italics, will not be required, but 2nd class "C" will be available as shown.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 14—continued.																			
57 / Artillery / 6192 **Cartouches** (waterproof canvas) R.B.L.	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cartouches (waterproof canvas) R.M.L.	...	...	...	...	2	8	...	...	...	...	...	...	...	...	...	...	...	...	
Cases pricker, vent, siege, R.B.L., 40-pr. 6 ft. parapet†	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cases vent-piece, R.B.L., 40-pr.	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Coins carriage, No. 5	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	
Coins hand No. 4	...	...	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	
Coins hand ,, 7	...	...	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	
Gyns, triangle, with appurtenances, light, tubular	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns and howitzers, except mobile guns.
Handspikes, common 7-ft.	...	...	...	...	...	...	5	5	...	...	...	...	...	...	...	...	...	...	
Handspikes, common 6 ,, ...	5	5	5	...	5	5	...	...	5	5	...	...	...	...	...	...	...	...	
Levers iron shod, crow, 7-ft.	*i*	*i*	*i*	...	*i*	*i*	*i*	*i*	*i*	*i*	...	...	...	...	...	...	...	...	For drawing bolts, &c.
Levers 12-ft.	...	...	...	...	...	...	*a*	*a*	*a*	*a*	...	...	...	...	...	...	...	...	
Levers 8 ,, ...	...	...	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

	Limbers, field, R.M.L., 25-pr.	…	…	…	…	…	2	…	…	…	…	…	…	…	…	…	…	…	…	1 for carriage and 1 for ammunition wagon.
	Limbers, field	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	1 spare per group of guns for the spare ammunition wagon.
	Limbers, siege, B.L.	1	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	
	Limbers, siege, R.B.L.	…	…	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	
	Limbers, siege, R.M.L.	…	…	…	…	1	…	1	1	1	1	…	…	…	…	…	…	…	…	
	Loops, breech, top carriage, R.M.L.	…	…	…	…	1	1	…	…	…	…	…	…	…	…	…	…	…	…	
	Measures, hydraulic buffer, filling	*i*	*i*	…	…	…	…	*i*	*i*	*i*	*i*	…	…	…	…	…	…	…	…	For filling the hydraulic buffer.
57 Gen. No. 7230	**Pins**, linch, 1st Class, steel	1‡	1‡	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	Spare.
	Pins, shaft, No. 16 shaft	*l*	*l*	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	
	Planks, trail, siege, Mark II	1	1	…	…	…	…	1	1	1	1	…	…	…	…	…	…	…	…	
	Plates, pivot, double-decked platform	1	1	…	…	…	…	1	1	1	1	…	…	…	…	…	…	…	…	With under plates and bolts.
	Plates, wheel, platform, siege … sets	1	1	…	…	…	…	1	1	1	1	…	…	…	…	…	…	…	…	
	Platforms, siege, Clerk's¶	…	…	1	…	1	1	…	…	…	…	…	…	…	…	…	…	…	…	
	Platforms, siege, double-decked "C" pivot	1	1	…	…	…	…	1	1	1	1	…	…	…	…	…	…	…	…	
	Plugs, pivot, No. 17	…	…	…	…	…	…	1	1	1	1	…	…	…	…	…	…	…	…	
	Pockets, extractor, tube P, B.L., 5-in. and 4-in. travelling†	1	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	
57 Gen. No. 7230	**Rings**, packing, hydraulic buffer, leather, U section	…	…	…	…	…	…	2	2	2	2	…	…	…	…	…	…	…	…	Spare.
	Rollers, shifting§, No. 1	…	…	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	For wood siege carriages.
	Rollers, shifting§, ,, 2	…	…	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	For iron 6-ft. parapet siege carriages.
	Rollers, shifting§, ,, 3	…	…	…	…	…	…	1	…	…	…	…	…	…	…	…	…	…	…	
	Rollers, shifting§, ,, 4	…	…	…	…	…	…	…	…	1	…	…	…	…	…	…	…	…	…	
	Rollers, shifting§, ,, 5	…	…	…	…	1	…	…	…	…	…	…	…	…	…	…	…	…	…	
	Rollers, shifting§, ,, 6	…	…	…	…	…	1	…	…	…	…	…	…	…	…	…	…	…	…	
	Rollers, shifting§, ,, 11	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	
	Rollers, shifting§, ,, 12	…	1	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	

7230 / 4 185 / 8856

a. 1 per 2 pieces or less number

* See footnote * on page 299.

i. 1 per group of guns.

† Issued with the carriage.

l. 1 per 10 or less number of limbers, &c.

‡ Per 10 or less number of carriages, &c.

¶ When existing stock of Clerk's platforms is used up, planks for trail and wheels will be issued.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 14—continued.																			
Shafts No. 16	*l*	*l*	*l*	...	*l*	...	*l*	*l*	*l*	*l*	...	...	...	...	...	...	...	...	
Shafts ,, 17	...	...	*l*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Shafts ,, 20	*l*	*l*	*l*	...	*l*	...	*l*	*l*	*l*	*l*	...	...	...	...	...	...	...	...	
Shoes, drag, No. 1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	*See* Appendix IX, pages 168 to 182.
Spanners No. 115, lock nut	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	
Spanners ,, 116, small...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	
Spanners bolts, bearings, box, screw, elevating No. 154 (cranked) ...	...	...	...	...	...	...	...	...	...	...	...	...	*d*	...	...	...	...	...	
Spanners bolts, bearings, box, screw, elevating ,, 155 (plain) ...	...	...	...	...	...	...	...	...	...	...	...	...	*d*	...	...	...	...	...	
Spanners hydraulic buffer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per double-decked platform, for use when laying platforms.
Spanners No. 155	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Straps, lifting, projectile R.B.L., 40-pr.	...	...	10	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	
Straps, lifting, projectile R.M.L., 25-pr.	...	...	...	...	...	18	...	...	...	...	...	...	...	...	...	...	...	...	

57
Gen. No.
6465

Swingletrees No. 1	*l*	*l*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Swingletrees spare	1	1	1	...	1	...	1	1	1	1	...	...	...	...	...	...	...	...	
Wagons, ammunition	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
Wagon, platform, gun, R.M.L., 6·6-inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of howitzers.
Washers, drag, 1st Class B	*l*	*l*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Spare.
Wheels 1st Class A No. 1	...	...	*l*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Wheels 1st Class B „ 6	...	...	...	...	*l*	...	*l*	*l*	*l*	*l*	...	...	...	...	...	...	...	...	
Wheels 1st Class B „ 7	*l*	*l*	*l*†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Wheels 2nd Class A „ 14	...	...	*l*	*l*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Wrenches forked, knock up	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	
Wrenches pivot No. 4	...	...	...	...	*a*	*a*	*a*	*a*	*a*	*a*	...	...	...	...	...	...	...	...	
Wrenches pivot „ 5	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
57 *Woolwich Section, No.* 15.																			
H. Kong 9952 **Bearers,** gun, breech, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	And 1 spare per 6 or less number of guns.
Boxes fuze No. 4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	5	...	
Boxes fuze „ 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	
Boxes fuze „ 13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	
Boxes grease, 1 lb.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	
Boxes pack, transport, ammunition, Clarkson, R.M.L. near	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Boxes pack, transport, ammunition, Clarkson, R.M.L. off	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Boxes pack, transport, ammunition, leather, R.M.L. 7-pr., 200-lb. common shell	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25	25	...	
Boxes pack, transport, ammunition, leather, R.M.L. 2·5-inch near	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	
Boxes pack, transport, ammunition, leather, R.M.L. 2·5-inch off	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	
Boxes pack, transport, small store, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	
Boxes pack, transport, sundries „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Carriages field, R.M.L., 7-pr. 150-lb., steel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	Gold Coast pattern.
Carriages mountain, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	1	1	1	

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a. 1 per 2 pieces or less number. *d*. 1 per 6 or less number. *l*. 1 per 10 or less number of vehicles.

* *See* footnote * on page 299.

† Or wheel, 1st Class, A, No. 1, in cases where such wheels are already on the carriage.

57
Gen. No.
7230

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers..												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 15—continued.																			
Cartouches, R.M.L. 7-pr. pack transport, 200 lb., 8 cartridges	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25	25	...	
Cartouches, R.M.L. 2·5-in. 8 cartridges	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25	and 1 spare per 4 or less number of guns.
57 **Handspikes,** traversing, No. 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Malta **Holdalls,** small stores, R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	
336 **Lifters,** R.M.L. carriage	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	and 1 spare per 6 or less number of guns.
Lifters, R.M.L. gun chase...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Limbers, mountain, R.M.L., 7-pr., 200-lb. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	When specially required.
Plates, clip, axletree, R.M.L., 2·5-in.	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	Spare.
Ropes, check, R.M.L., 2·5-in. and 7-pr. 200-lb., Mark II	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	
Spanners, No. 107	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Washers, drag, carriage, R.M.L....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	*Spare.
Woolwich Section, No. 16.																			
Ordnance R.B.L.	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Ordnance R.B.L., bolts, eye, elevating ...	...	...	...	1	...	...	...	...	..	...	1	1	...	...	...	...	...	...	

Plugs, vent	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	To protect the vent at home stations and in cold climates.
Plummets, howitzer†	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Sights, R.B.L. fore	...	...	2	2	...	...	...	...	...	...	2	2	...	...	...	...	...	...	
Sights, R.B.L. tangent	...	...	2	2	...	...	...	...	...	...	2	2	...	...	...	...	...	...	
Spikes, gun common	2	2	2*a*	...	2	2	2	2	2	2	...	...	2	2	2	2	2	2	
Spikes, gun spring C	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	
Spikes, gun spring D	...	...	...	...	1	1	...	...	1	1	...	...	1	...	...	...	...	...	
Spikes, gun spring E	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	2	2	
Tools, cleaning, painting and lacquering rifled ordnance ... ... sets	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	*g*	According to the nature of ordnance in the district. For detail see Table A, pages 54 and 55.
Vent servers‡	...	...	2*a*	...	2	2	2	2	2	2	...	...	...	...	...	...	...	...	To place in the vent while loading.
Woolwich Section, No. 17.																			
Boxes, obturating pads and discs 5-in.	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Boxes, obturating pads and discs 4 ,, ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Clamps tangent sight A	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Clamps tangent sight B	...	...	...	...	...	...	2	1	2	1	...	...	...	...	...	...	...	...	
Clamps tangent sight D	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	
Clamps tangent sight Automatic A	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Clamps tangent sight R.M.L. 2·5-inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Clamps sights... R.M.L., reciprocating, 2·5-inch§	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Ordnance B.L.‖	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Ordnance R.M.L.¶	...	...	...	...	1	1	1	1	1	1	...	...	1	1	1	1	1	1	

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a. Side closing guns only.

* *See* footnote * on page 293.

‡ Whipcord should be demanded separately for making the lanyards.

‖ For components, special implements, appurtenances, &c., *see* pages 340 to 359.

¶ ,, ,, ,, ,, 364 ,, 371.

g. 1 per district, if necessary.

† When the existing stock of these is used up "plummets, laying" will be issued.

§ Mark I. for Mark I. sights, Mark II. for Mark II. sights.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

38407 / Equipt. / 1734

54 / Arty. / 7460

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 17—continued.																			
Ordnance ... R.M.L. *Fittings.*																			
bolts, cascable, elevating ...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	1 spare to 6 guns or less number.
7-pr., screws, set, socket, tangent, sight	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	
jointed 2·5-inch protectors, sight ring ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	Spare.
jointed 2·5-inch rings adjusting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	
jointed 2·5-inch rings gas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
jointed 2·5-inch rings retaining gas ring	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
jointed 2·5-inch screws, preserving fore sight	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Special Implements.																			
jointed 2·5-inch guards, trunnion ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
jointed 2·5-inch hammers	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
jointed 2·5-inch levers, gas-ring	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
bars, shifting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	And 3 spare per battery.
wrenches, sight muzzle ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	
13-pr., wrenches, sight ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
wrenches, sight, R.M.L.... ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	

Prickers, vent, 17-inch	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	To clear the vent.
Prickers, vent, 12 ,, ...	...	...	1*a*	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	
Prickers, vent, 7½ ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	
Punches, vent, 12-in.	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	
Punches, vent, 8-in.	...	...	1*a*	...	1	1	1	...	1	1	...	...	1	1	1	...	...	...	
Sights, B.L., fore, E	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Sights, B.L., tangent	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Sights, B.L., telescopic, 5-in. and 4-in.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Sights, R.M.L., crossbar, fore	...	...	...	...	...	...	2	1	2	1	...	...	...	...	...	...	...	...	
Sights, R.M.L., crossbar, tangent	...	...	...	...	...	...	2	1	2	1	...	...	...	...	...	...	...	...	
Sights, R.M.L., fore ... B	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	
Sights, R.M.L., fore ... 16-pr.	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	
Sights, R.M.L., fore ... 2·5-in.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Sights, R.M.L., muzzle	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1*c*	...	...	
Sights, R.M.L., tangent	...	...	...	...	2	2	...	...	...	...	...	...	2	2†	2†	...	...	...	
Sights, R.M.L., tangent, 7-pr. 200 lbs., 12°	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	
Sights, R.M.L., tangent, 7-pr. 200 lbs., 8°	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1*c*	...	...	Spare.
Sights, R.M.L., tangent, 7-pr. 150 lbs., 20°	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
Sights, R.M.L., tangent, 7-pr. 150 lbs., 10°	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1*c*	...	
Sights, R.M.L., tangent, 2·5-inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Sights, R.M.L., reciprocating, 2·5-in.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Woolwich Section, No. 18.																			
Bags, extractor, projectile, 9-in.	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	To cover the head.
Blocks, wood, snatch, 10-inch	...	...	*b*	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Brushes, piasaba, B.L. bore	*i*	*i*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Brushes, piasaba, R.B.L.	...	...	*i*	*i*	...	...	...	...	...	...	*i*	*i*	...	...	...	...	...	...	For cleaning out the grooves.
Brushes, piasaba, R.M.L	...	...	...	...	*i*	*i*	*i*	*i*	*i*	*i*	...	...	*i*	*i*	*i*	*i*	*i*	*i*	
57 / Gen. No. / 1870 **Canvas**, packing inch ... ... Hessian, 47-yards	2½	2½	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	Annual allowance. For use with piasaba brush for cleaning bores.
Caps, sponge‡, No. 2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Caps, sponge‡, ,, 3	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	1	...	
Caps, sponge‡, ,, 4	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	
Caps, sponge‡, ,, 5	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	To protect sponge heads.
Caps, sponge‡, ,, 7	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Caps, sponge‡, ,, 8	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
Caps, sponge‡, ,, 9	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
Caps, sponge‡, ,, 10	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	

a. Side closing gun only. *b*. 1 per 3 pieces or less number. *c*. per 2 guns. *i*. 1 per group of guns. * See footnote * on page 299.

† 1 long and 1 short. ‡ Only to be used for sponges in transit or where stores are damp, or when kept in the open.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 18—continued.																			
Cases, cartridge No. 2	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	To bring up filled cartridges to gun in action.
Cases, cartridge No. 4	...	...	2	...	2	2	...	...	2	2	...	...	...	...	...	...	...	...	
Cases, cartridge No. 5	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cases, cartridge No. 25	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Coatings, sponge, R.B.L.	...	...	†	†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Spare for sponge head.
Cordage hawser, 3-strand, tarred, 1½-inch fms.	12	12	12	...	12	12	12	12	12	12	...	...	...	...	...	...	...	...	For lashing skids, &c.
Cordage tarred, spun yarn, hemp, 2-thread lb.	2	2	2	...	2	2	2	2	2	2	...	...	...	...	...	...	...	...	General purposes.
57 **Covers,** breech	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Vocab. **Covers,** vent B.B.L.	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	To protect vent slots and sights.
Covers, vent R.M.L.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	
3752 **Extractors,** projectile, R.M.L.	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Lines, Hambro'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Marline ... lb.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rammers B.L.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rammers R.B.L.	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Rammers R.M.L.	...	...	...	...	1‡	1‡	1	1	1	§	...	...	§	§	§	§	§	§	

Ropes, drag, heavy... pairs	...	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	For general purposes.
Ropes, drag, light ... ,,	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	
Ropes, parbuckling, 12 fathoms	...	...	...	*b*	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Selvagees, ordinary	...	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Sponges R.B.L	...	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Sponges R.M.L.	...	...	...	...	...	1‖	1‖	1	1	1	1	...	...	1	1	1	1	1	1	
Staves, end, B.L.	...	*a*	*a*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Tackles, luff, 14 fathoms	...	2	2	2	...	2	2	2	2	2	2	...	...	...	...	...	...	...	...	For shifting the gun, &c.
Tampoons B.L.	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Tampoons R.B.L. breech	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Tampoons R.B.L. muzzle	...	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Tampoons R.M.L. ...	...	...	...	...	...	1	1	1	1	1	1	...	...	1	1	1	1	1	1	
Twine, packing, small	lb.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	
Wadhooks, R.M.L. 8-inch, 70 cwt., howitzer	...	...	...	...	...	...	...	*b*	...	...	...	...	...	...	...	...	...	...	...	For drawing the charge and searching the bore. If more are required for drill they must be collected from other pieces.
Wadhooks, R.M.L. 8-inch, 46 cwt., howitzer	...	...	...	...	...	...	...	...	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Wadhooks, R.M.L. 40-pr....	...	...	...	...	...	*b*	...	...	...	...	...	...	...	...	...	...	...	...	...	
71/1/7092 **Worms,** wadhook No. 4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*b*	...	...	...	1	
Worms, wadhook ,, 5	...	...	...	...	...	...	...	...	...	...	...	...	...	*b*	...	*b*	1	...	...	
Worms, wadhook ,, 6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
Worms, wadhook ,, 9	...	...	...	...	...	...	*b*	...	...	...	...	...	..	...	...	...	...	...	...	
Woolwich Section, No. 19.																				
Planks, moving guns, half 6 ft. × 12 in. ...	...	...	...	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	For Clerk's platforms.
Planks, moving guns, half 6 ,, × 12 ,,	...	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	For moving and mounting guns.
Planks, moving guns, half 4 ,, × 12 ,,	...	1	1	1	...	1	1	1	1	1	1	...	...	...	..	...	...	...	...	
Planks, moving guns, whole, 10 ,, × 17 ,, fir	...	2	2	2	...	2	2	2	2	2	2	...	...	...	...	...	...	...	...	
Rollers, ground, 3 ft. × 6 in. diameter	...	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	For mounting and dismounting, &c.
Rollers, ground, 2½ ,, × 5 in. diameter Sabicu	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	
Rollers, ground, 20 in. × 5 in. diameter...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	For shifting to platform wagon.
Rollers, ground, 14 ,, × 5 ,, ,,	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	

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a. 1 per piasaba brush.
b. 1 per 3 pieces or less number.
* See footnote * on page 299.
† 1 per 100 rounds of ammunition.
‡ Jointed if with top carriage.
§ Rammers are on the sponge stave, and are provided with worms, except for the 6·3-inch howitzers, which are provided with wadhook.
‖ Wire rope stave if used with top carriage.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 19 - continued.																			
Scotches large	4	4	4	...	4	4	4	4	4	4	...	...	...	...	...	...	...	...	For general purposes.
Scotches medium	4	4	4	...	4	4	4	4	4	4	...	...	...	...	...	...	...	...	
Scotches small	4	4	4	...	4	4	8	8	8	4	...	...	...	...	...	...	...	...	
Skids 3 ft. × 9 in × 6 in.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6 per group of guns. For mounting and dismounting, &c.
Skids 3 „ × 6 „ × 5 „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Skids 3 „ × 6 „ × 3 „	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Skids 3 „ × 5 „ × 4 „	...	...	1†	...	1†	1†	...	...	...	...	...	...	...	...	...	...	...	...	6
Skids dismounting 14 ft. × 8 in. sq. prs.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	2
Skids dismounting 14 ft. × 5½ in. sq. prs.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Woolwich Section, No. 20.																			
Bags, powder, 15 lb.	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	
Cases, powder, metal lined, Keys...	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	
Covers, cartridge, paper, R.M.L.	...	...	...	...	*k*	*k*	...	...	...	...	...	...	*k*	*k*	*k*	*k*	*k*	*k*	
Lubricators, service 40-pr....	...	...	*k*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Scales, weighing, powder, 8 lb.	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	

Weights, brass, 8 ounces	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Weights, gunmetal, 7 lbs.	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Weights, gunmetal, 4 ,,	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Weights, gunmetal, 2 ,,	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Weights, gunmetal, 1 ,,	...	...	...	...	...	...	*b*	*b*	*b*	*b*	...	...	...	...	...	...	...	...	
Silk, twist ... oz.	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	

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2
Woolwich Section, No. 21.
7695

Cartridges, B.L., filled, 5-inch, 7¾ lb. S.P.	2 per round of ammunition.																		
4 ,, 12 ,,	1 per round of ammunition.																		
R.B.L., filled, silk cloth, 40-pr., 5 lb. R.L.G.^{2}																			
20 ,, 2½ ,, ,,																			
12 ,, 1½ ,, ,,																			
9 ,, 1⅛ ,, ,,																			
R.M.L., filled, silk cloth, 8-inch, 11½ lb. R.L.G.^{2}																			An equal number of each charge per howitzer will be maintained.
10 ,, ,,																			
7 ,, ,,																			
5 ,, ,,																			
3½ ,, ,,																			
2½ ,, ,,																			
6·6-inch, 5 ,, ,,																			
3 ,, ,,																			
2 ,, ,,																			
6·3-inch ‡, 4¼ ,, R.L.G.^{4}																			
2½ ,, ,,																			
40-pr., 6¾ lb. R.L.G.^{4}	1 per round of ammunition.																		
25 ,, 4½ ,, ,,																			
16 ,, 3 ,, 3 oz. R.L.G.^{4}																			
13 ,, 3¼ ,, R.L.G.^{4}																			
9 ,, 1¾ ,, R.L.G.^{2}																			
7 ,, 12 oz. R.F.G.	1 per round of ammunition, common and shrapnel shell and case shot.																		
7 ,, 6 ,, R.F.G.^{2}																			
2·5 inch, 1 lb. 10 oz. R.L.G.^{4}																			
shalloon, 7-pr., 4 oz. R.F.G.^{2}	1 per round of star shell.																		
shalloon, 2·5 inch, 6 oz. R.L.G.^{2}																			

a. 1 per 2 pieces or less number.

b 1 per 3 pieces or less number.

k. 1 per round.

* *See* footnote * on page 299.

† For Clerk's platforms.

‡ Existing charges of 4 lb. and 2 lb. R.L.G.^{2} will first be used up.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 22.																			
Bits, vent, Armstrong	...	...	*c*	*c*	...	...	...	...	...	...	*c*	*c*	...	...	...	...	...	...	For removing irregularities in the vent.
Boxes, tube, garrison	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Cups, R.B.L. guns 40-pr.	...	...	†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cups, R.B.L. guns 40-pr., side closing... ...	...	...	*k*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cups, R.B.L. guns 20-pr.	...	...	...	†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cups, R.B.L. guns 12-pr.	...	...	...	...	...	...	...	...	...	...	†	†	...	...	...	...	...	...	
Extractors tin cup crosshead	...	...	1 *l*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Extractors tin cup hook	...	...	1‡	1‡	...	...	...	...	...	...	1‡	1‡	...	...	...	...	...	...	
Fuzes§ percussion breech loading, plain, No. 2	...	...	...	90	...	...	...	...	...	...	50	50	...	...	...	...	...	...	Per 100 rounds.
Fuzes§ percussion direct action, No. 3, (Mark II)	45	...	...	...	...	...	40	40	40	80	...	...	...	...	...	...	...	...	
Fuzes§ percussion R.L., No. 7	...	...	45	...	45	45	...	...	...	...	...	...	24	24	24	26	26	...	
Fuzes§ percussion small, No. 8	...	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	
Fuzes§ Armstrong, E, No. 22	...	...	...	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Fuzes§ Armstrong, E, sensitive long, No. 23... ...	...	...	...	...	...	...	20	20	20	...	...	...	...	...	...	...	...	...	
Fuzes§ Armstrong, E, sensitive middle, No. 24 ...	...	...	...	...	...	...	20	20	20	...	...	...	...	...	...	...	...	...	

...
8205

75
12
8205
40185
7915

time	15 seconds, M.L., No. 41 ...	...	...	...	...	...	45	...	...	...	...	...	...	72	...	72	60	60	...
	15 seconds, with special priming, No. 42	...	...	...	...	...	...	10	10	10	10	...	...	...	...	...	5	5	5
	15 seconds, with detonator, No. 43	...	...	50	...	45	...	...	...	...	...	50	50	...	...	...	...	...	...
and percussion	middle, No. 54 ...	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	short, No. 55 ...	...	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	60
	No. 56	...	...	...	...	...	...	...	...	...	...	...	...	...	72‖	...	...	...	...
Horns, powder¶		...	...	...	...	...	...	*i*	*i*	*i*	*i*	..	...	...	...	...	...	...	...
Implements, fuze, shell, and cartridge	Bits, hook borer, Mark III	...	...	6	...	6	6	6	6	6	6	6	6	6	...	6	6	6	6
	Cylinders, common ...	...	...	1	...	1	1	1	1	1	1	1	1	1	...	1	1	1	1
	Drifts, G.S....	...	...	...	*a*	...	...	...	...	...	...	*a*	*a*	...	*a*	*a*	...	...	...
	Drivers, screw, Shrapnel, large	*a*	...	...	...	*a*	*a*	*a*	*a*	*a*	*a*	...	...	*a*	*a*	*a*	...	...	...
	Extractors, fuze, small, rifled	...	...	*a*	...	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	*a*	...	*a*	*a*	*a*	*a*
	Handles, hook borer ...	...	...	1	...	1	1	1	1	1	1	1	1	1	...	1	1	1	1
	Hooks, G.S. wad ...	...	...	...	*a*	...	...	...	...	...	...	*a*	*a*	...	*a*	*a*	..	...	...
	Hooks, hook borer ...	...	...	1	...	1	1	1	1	1	1	1	1	1	...	1	1	1	1
	Keys, plug, G.S.**	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	1	1	1
	Keys, fuze, universal**	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
	Keys, fuze, Armstrong E	...	...	...	1††	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pincers, Shrapnel primer	*a*	...	...	...	*a*	*a*	*a*	*a*	*a*	*a*	...	...	*a*	*a*	*a*	...	...	...
	Wrenches, base plug ...	...	...	...	...	1	...	1	1	1	1	...	...	...	...	...	...	...	...

*For priming howitzers if required.

54
Arty.
6455
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7 Lanc. Art.
551

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a. 1 per 2 pieces or less number.
c. 1 per 4 pieces or less number.
i. 1 per group of howitzers.
k. 1 per round.
l. Side closing guns only.
* *See* footnote * on page 299.
† With practice ammunition only.
‡ For practice guns only.

§ The designation number is shown on the label of the cylinder or other package in which the fuze s packed. The number stamped on the fuze itself denotes the number of the thousand manufactured.

‖ 100 for the 13-pr. guns at Malta.

¶ Contains 1½ lb. of gunpowder, which will be supplied as required.

** Keys fuze and plug on charge will continue to be used till worn out.

†† Or key fuze universal, Mark I, for use with the fuze time, Armstrong E No. 22.

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Gib.
6888

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5 inch.*	
Woolwich Section, No. 22—continued.																			
Lanyards cocking	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lanyards friction tube, field	...	...	...	...	...	...	...	...	...	...	3	3	3	3	3	3	3	3	
Lanyards friction tube, siege No. 1	...	...	3	3	3	3	3	3	3	3	...	...	...	...	...	...	...	...	
Lanyards friction tube, siege ,, 2	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lanyards Key, fuze and plug...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	3	3	
Match, slow ... ... lb.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns for lighting portfires.
Plugs, wood, covered with serge	...	...	...		...	...	...	...	...	...	46	46	...	...	...	...	...	...	1 per segment shell.
Pockets fuze and hook borer	1	1	1	1	1	1	...	...	...	...	1	1	1	...	1	1	1	1	
Pockets tin cup	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Pockets tube, land service	...	...	1†	...	1	1	1	1	1	1	...	...	1	1	1	1	1	1	
Pockets tube, V.S.	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	For percussion vent sealing tubes.
Portfires, common	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per group of guns for firing signal rockets.

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Gib.
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(EQ, R. 1028)

Primers, fuze, percussion, R.L., No. 7 ...	...	...	45	...	45	45	...	...	...	...	...	...	...	...	...	...	...	...	20 per group of guns.
Rockets signal, 1 lb., service	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rockets sticks, 8′ 2″	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per signal rocket.
Straps, tube box, long	1	1	3‡	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	
Tubes friction, copper, solid drawn	...	...	*k*§	*k*	...	...	...	...	...	...	*k*	*k*	...	...	...	...	...	...	
Tubes friction, copper, solid drawn, with ball	...	...	...	...	*k*	*k*	*k*	*k*	*k*	*k*	...	...	*k*	*k*	*k*	*k*	*k*	*k*	
Tubes vent, sealing, percussion	*k*	*k*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Woolwich Section, No. 22A.																			
Gauges, shell, ring. B.L. band 5-inch high ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns
Gauges, shell, ring. B.L. band 4 ″ ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gauges, shell, ring. B.L. body 5-inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gauges, shell, ring. B.L. body 4 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Woolwich Section, No. 21.																			
Bearers, shot R.M.L. 8-inch howitzer	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	For carrying projectiles.
Bearers, shot R.M.L. 6·6-inch ,, ...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
Boxes, pack. transport, ammunition, wood, shell, R.M.L., 2·5-inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Gas-checks, R.M.L.	...	...	...	...	†	...	†	†	†	†	...	...	...	...	...	...	...	...	1 per group of guns.
Gauges, shell, ring, R.B.L.‡ 40-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gauges, shell, ring, R.B.L.‡ 20-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gauges, shell, ring, R.B.L.‡ 12- or 9-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

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k. 1 per round.

† Except 40-pr. side closing.

‡ For 40-pr. side closing gun 2 only are required, viz.:—1 for tube box and 1 for tin cup pocket.

§ For the 40-pr. R.B.L. side closing gun, the tube, friction, solid drawn, with ball, will be issued.

* *See* footnote * on page 299.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

ABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable.										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	70-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolrich Section, No. 24—continued.																			
Gauges, shell, ring, R.M.L.‡ body and gas-checks 8-inch howitzer, 70 cwt.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of howitzers.
6·6-inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
6·3 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
13-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns.
body and studs 8-inch, 46 cwt. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of howitzers.
40-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns.
25-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
16-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
9-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Implements, fuze, shell, and cartridge Rectifiers, gas-check, R.M.L., 13-pr.	...	...	...	...	...	...	...	...	...	...	...	...	...	*a*	...	...	...	...	
Spanners, gas-check plug	...	...	...	...	1	...	...	1	...	1	...	...	...	...	...	...	...	...	

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Equip.
1800

Plugs, fuze-hole, G.S., with loop	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	Per shell.
Plugs, fuze-hole, G.S., without loop	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Plugs, fuze-hole, R.B.L.	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	
Shells, B.L., filled, common	45	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Per 100 rounds.
Shells, B.L., filled, Shrapnel	45	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Shells, R.B.L., filled, common	...	...	45	45	...	...	...	...	...	...	50	50	...	...	...	...	...	...	
Shells, R.B.L., filled, segment	...	...	...	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Shells, R.B.L., filled, Shrapnel	...	...	45	...	...	...	...	...	...	...	46	46	...	...	...	...	...	...	
Shells, R.M.L., filled, common	...	...	...	...	45	45	40	40	40	80	...	...	24	24‡	24	26	26	...	
Shells, R.M.L., filled, Shrapnel	...	...	...	...	45	45	40	40	40	...	...	...	72	72‖	72	60	60	60	
Shells, R.M.L., filled, ring	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	
Shells, R.M.L., filled, star	...	...	...	...	...	...	10	10	10	10	...	...	...	...	...	5	5	5	Per 100 rounds.
Shot, B L., case	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Shot, R.B.L. ,,	...	...	10	10	...	...	...	...	...	...	4	4	...	...	...	...	...	...	
Shot, R.M.L. ,,	...	...	...	...	10	10	10	10	10	10	...	...	4	4	4	9	9	9	
Stars, incendiary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	60	60	60	10 in a cylinder.
Woolwich Section, No. 25.																			
Boxes, lantern, bull's-eye	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	
Brooms, bass, heads	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	For sweeping the platform, &c.
Brooms, bass, handles	1	1	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	
Cans, oil, feeding, ½-pint	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	
Caps, knee, musketry instruction	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	8	8	
Lanterns, bull's-eye¶	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	1	1	1	1 per group of guns.
Scissors, lamp	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Woolwich Section, No. 27.																			
PACKSADDLERY.																			
Caps, joint, chase, R.M.L., 2·5 inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Covers, R.M.L., trunnion sight, 2·5 inch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	

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a. 1 per 2 pieces or less number.

† 1 per shell, except star shell.

‖ For Malta, a special proportion of 200 rounds shrapnel per gun is allowed.

¶ Oil and wick for these are supplied by army service corps, as required.

* *See* footnote * on page 299.

‡ The issue of low band gauges is not considered necessary.

Equipment of Guns and Howitzers for Movable Armaments—*continued.*

TABLE 21—*continued.*

	Proportions (per piece).																		Remarks.
	Movable										Mobile.								
	B.L. Guns.		R.B.L. Guns.		R.M.L.						R.B.L. Guns.		R.M.L. Guns.						
					Guns.		Howitzers.												
							8-inch.									7-pr.*			
	5-inch.	4-inch.	40-pr.	20-pr.	40-pr.	25-pr.	76-cwt.	46-cwt.	6·6-inch.	6·3-inch.	12-pr.	9-pr.	16-pr.	13-pr.	9-pr.	200-lb.	150-lb.	2·5-inch.*	
Woolwich Section, No. 27—continued.																			
PACKSADDLERY—*continued.*																			
Pockets drag, washer, R.M.L., 2·5 inch ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	3	
Pockets foresight, R.M.L., 2·5 inch ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Pockets range table, R.M.L., 2·5 inch ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	
Pockets tangent scale, R.M.L., 2·5 inch ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	
Woolwich Section, No. 23.																			
Flags, signal, Army, blue, 3 feet square...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per group of guns.
Flags, signal, Army, white with stripe, 3 feet square ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Flags, signal, Army, Poles, 5 feet 6 inches	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 per group of guns.
Stands, telescope, signalling	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns.
Telescopes, signalling	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

Woolwich Section, No. 29.																			
Clinometers, Watkin†	1	1	...	...	1	1	1	1	1	1	...	...	1	1	1	1	1	1	For giving quadrant elevation and measuring vertical angles.
Range-finders, field, Watkin, large, with appurtenances	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns.
Stands, telescope, 2½-in. socket	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Tape, measuring, 50 feet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Telemeters, artillery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	Per 3 guns.
Telescopes, 3-feet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per group of guns.

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* *See* footnote * on page 299.

† As these become unserviceable they will be replaced by the "Clinometer large," for the B.L. 5-inch and 4-inch, and R.M.L. 40-pr. and 25-pr. guns and R.M.L. howitzers; and for the lighter natures of R.M.L. guns by the "Clinometer field." When the large climometer is issued to the 40-pr. and 25-pr. R.M.L. it will be carried as convenient.

EQUIPMENT OF SIEGE TRAIN COMPANIES, 40-PR. AND 25-PR. R.M.L. GUNS, 8-INCH AND 6·6-INCH R.M.L. HOWITZERS.

TABLE 23.	Gun.		Howitzer.		Carts, trench.	Wagons.				No. per Battery.
							Platform.			
	40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.		Ammunition and store.	Gun.	Gyns.	Store, R.A., and limber.	
Woolwich Section, No. 2.										
Axes, felling, curved helve	1	1	1	1	...	1	...	...	1	7
Axes, helves, 36 inches (spare) ...	...	...	...	...	...	...	...	...	...	2
Axes, pick, heads, 6½ lbs.	1	1	1	1	...	1	...	...	1	7
Axes, pick, helves, 34½ inches ...	...	...	...	...	...	...	...	...	...	14*
Barrows, hand, single	...	...	...	...	...	...	...	...	...	2
Bars, crow, 5 feet 6 inches	...	...	...	...	...	...	...	...	...	1
Buckets, water, G.S., leather... ...	2	2	2	2	...	2	2	2	2	18
Colours, camp	3	3	3	3	...	...	...	...	...	12
Hooks, bill	1	1	1	1	...	1	...	...	1	7
Kettles, camp, oval, 12 quarts ...	2	2	2	2	...	2	2	2	2	18
Lamps, tracing†	...	...	...	...	...	...	...	...	...	4
Lanterns, tent-folding‡	...	...	...	...	...	...	...	...	2	2
Mauls, iron hooped	1	1	1	1	...	1	...	...	1	7
Posts, picket, 5-feet	...	...	...	...	...	...	...	...	...	10
Rammers, earth	...	...	...	...	...	...	...	...	...	10
Shovels, universal...	1	1	1	1	...	1	...	...	1	7
Spades, N.P.	1	1	1	1	...	1	...	...	1	7
Stools, camp	...	...	...	...	...	...	...	...	1	1
Woolwich Section, No. 4.										
Boxes, grease, 3 lbs.	1	1	1	1	1	2	1	1	1	10
Carts, trench	...	...	...	...	2	...	...	...	...	2
Woolwich Section, No. 5.										
Brushes, water, carriage	2	2	2	2	...	1	1	1	1	13
Couples, trace	2	2	2	2	...	2	...	...	2	12
Woolwich Section, No. 7.										
Chests, tool, filled, No. 3E	...	...	...	...	...	...	...	...	...	1
Chests, tool, filled, ,, 11B	...	...	...	...	...	...	...	...	...	1
Cases, saw, hand	1	1	1	1	...	...	...	...	...	4
Drivers, screw, G.S., 6-inch	1	1	1	1	...	...	...	...	...	4
Files, second cut, half round, 8-inch...	1	1	1	1	...	...	...	...	...	4
Hammers, claw, 28-oz.	1	1	1	1	...	...	...	...	...	4
Handles, file, middling	1	1	1	1	...	...	...	...	...	4
Knives, clasp	1	1	1	1	...	...	...	...	...	4
Levels, F.S., 4 feet	...	...	...	...	...	...	...	...	...	2
Lines, carpenters	1	1	1	1	...	...	...	...	...	4
Pincers, carpenters ... ... pairs	1	1	1	1	...	...	..	...	...	4
Reels, carpenters line	1	1	1	1	...	...	...	...	...	4
Saws, cross cut, blades, 6 feet 6 inches ...	...	...	...	...	...	...	...	...	1	1
Saws, cross cut, handles	...	...	...	...	...	...	...	...	2	2

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* Also for mauls.

† Oil and wick for these are supplied by Army Service Corps, as required.

‡ Candles for these are supplied by Army Service Corps, as required.

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

TABLE 32—*continued.*	Gun.		Howitzer.		Carts, trench.	Wagons.				No. per Battery.
	40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.		Ammunition and store.	Plat-form.		Store, R.A., and limber.	
							Gun.	Gyns.		
Woolwich Section, No. 7—contd.										
Saws hand, 26-inch	1	1	1	1	...	...	...	...	...	4
pit blades, 6 feet	...	...	...	...	...	...	...	...	1	1
boxes	...	...	...	...	...	...	...	...	1	1
tillers	...	...	...	...	...	...	...	...	1	1
handles	...	...	...	...	...	...	...	...	1	1
Spanners, McMahon, 15-inch	1	1	1	1	...	...	...	...	...	4
Spikes, marline, iron, 11-inch	...	...	...	...	...	...	...	...	...	1
Woolwich Section, No. 10.										
Jacks, lifting G.S.	...	1	...	...	...	...	...	...	...	1
screw, Clerk's	1	...	1	1	...	...	...	...	...	3
Tarpaulins, 20 ft. × 10 ft.	...	...	...	...	...	...	...	...	...	2
Woolwich Section, No. 11.										
Baskets, tin oil bottle, 5 gallons	...	...	...	...	...	...	...	...	...	2
Bottles, tin oil, 4 gallons	...	...	...	...	...	...	...	...	...	2
Bungs, tin, oil bottle, 5 gallons	...	...	...	...	...	...	...	...	...	4
Chalk, white ... ozs.	4	4	4	4	...	...	...	...	...	16
Drums, oil, 3 gallons	...	...	...	...	...	...	...	...	...	2
Oil, mineral ... gals.	...	...	*a*	*a*	...	...	...	...	...	
Wax, bees ... ozs.	4	4	4	4	...	...	...	...	...	16
Woolwich Section, No. 13.										
Boxes grease, 14 lbs.	...	...	...	...	...	...	...	...	...	1
lantern, folding	...	...	...	...	...	...	...	...	1	1*
stationery, store, wagon, R.A.	...	...	...	...	...	...	...	...	1	1
Clippers, portfire	1	1	1	1	...	...	...	...	...	4
Handspikes, traversing, No. 8†	...	2	...	...	...	...	...	...	...	2
Limbers, wagon, store, R.A.	...	...	...	...	...	...	...	...	1	1
Pins keep, box, lock	2	2	1	1	...	...	...	...	...	6
linch, 2nd class, steel	1	2	1	1	1	1	1	1	1	10‡
shaft, No. 1 shaft	...	...	1	1	...	...	...	...	...	2‡
Shafts, No. 1	...	...	§	§	...	...	...	...	...	‡
Sticks, portfire	1	1	1	1	...	...	...	...	...	4
Straps, securing, 1 in. × 44 in.	...	...	...	...	...	...	...	...	...	18
Swingletrees, No. 2	...	1	...	...	...	1	...	...	1	4
Wagons ammunition and store, R.A.	...	...	...	...	...	2	...	...	...	2
store, R.A.	...	...	...	...	...	...	...	...	1	1
Washers drag, 2nd class	...	1	...	...	1	1	1	1	1	7‡
loop ,, C	1	...	1	1	...	...	...	...	...	3‡
Wheels, 2nd class, C, No 39‖	...	...	§	§	...	...	...	...	...	...‡

57
Gen. No.
7230

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a As required for buffers. * Issued with the wagon.

† When the existing stock of these is used up, the No. 4 handspike will be issued.

‡ Spare. § 1 per 10 or less number of carriages.

‖ If the axletrees have not been altered for the 11-inch pipe box. Wheel 2nd Class B No. 25 will be required instead of that shewn.

57
Gen. No.
6884

57
Gen. No.
7230

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

	TABLE 22—*continued.*		Gun.		Howitzer.			Wagons.				
									Platform.			
			40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.	Carts, trench.	Ammunition and store.	Gun.	Gyns.	Store, R.A., and limber.	No. per Battery.
	Woolwich Section, No. 14.											
	Arcs, elevating, carriage, siege, R.M.L.	8-inch, 70 cwt., howitzer	...	...	1	...	...	...	...	...	...	1
		40-pr.	1	...	...	1	...	...	...	...	...	2
		25 „	...	1	...	...	...	...	...	...	...	1
		top 40 pr.	1	...	...	...	...	...	...	...	...	1
		top 25-pr.	...	1	...	...	...	...	...	...	...	1
	Bolts, ⅜-inch		8	5	...	...	...	...	...	...	...	13
	Cans, lubricating, No. 5		1	1	1	1	...	...	...	...	...	4
	Carriages, siege, R.M.L.	8-inch, 70 cwt., howitzer	...	...	1	...	...	...	...	...	...	1
		6·6-inch howitzer ...	...	...	...	1	...	...	...	...	...	1
		40-pr. top, overbank ...	1	...	...	...	...	...	...	...	...	1
		25-pr. top, overbank ...	...	1	...	...	...	...	...	...	...	1
	Cartouches, R.M.L.	40-pr.	2	...	...	...	...	...	...	...	...	2
		25-pr.	...	2	...	...	...	...	...	...	...	2
	Cocks, hydraulic buffer, siege, R.M.L. howitzer.		...	...	...	...	...	...	...	...	...	1
	Gyns, triangle, with appurtenances, light, tubular		...	...	...	...	...	...	...	1	...	1
	Handspikes, common	7 ft.	...	...	8	...	...	...	...	...	...	8
		6 ft.	8	8	...	8	...	...	...	...	...	24
	Levers, 12-ft.		...	...	1	...	...	...	...	...	...	2
	Limbers	field, R.M.L. 25-pr. ...	...	1	...	...	...	...	...	...	...	1
		siege, R.M.L. 40-pr.	1	...	...	...	...	...	...	...	...	1
		siege, R.M.L. howitzer, siege train.	...	...	1	1	...	...	...	...	...	2
	Loops, breech, top carriage, R.M.L.	40-pr.	1	...	...	...	...	...	...	...	...	1
		25-pr.	...	1	...	...	...	...	...	...	...	1
	Measures, hydraulic buffer, filling ...		...	...	1	1	...	...	...	...	...	2
57 Gen. No. 7230	**Pins**,	linch, 1st class, steel	1	...	1	1	...	...	...	...	...	3*
		shaft, No. 16 shaft	...	...	1	1	...	...	...	...	...	2*
	Planks, trail, siege		...	...	1	1	...	...	...	...	...	2
	Plates	pivot, double-decked platform	...	...	1	1	...	...	...	...	...	2
		wheels, platform, siege sets	...	...	1	1	...	...	...	...	...	2
	Platforms, siege	Clerk's§	1	1	...	...	...	...	...	...	...	2
		double-decked "C" pivot	...	...	1	1	...	...	...	...	...	2
	Plugs, pivot, No. 17		...	...	1	1	...	...	...	...	...	2
	Plugs, filling hole, hydraulic buffer, No. 40		...	...	1	1	...	...	...	...	...	2*
... 7230	**Rings**, packing, hydraulic buffer leather, "U" section		...	...	2	2	...	...	...	...	...	4*
	Rollers, shifting	No. 3	...	...	1	...	...	...	...	...	...	1
		„ 4	...	...	...	1	...	...	...	...	...	1
		„ 5	1	...	...	...	...	...	...	...	...	1
		„ 6	...	1	...	...	...	...	...	...	...	1
... 7230	**Shafts**	No. 16 (framed) ... pairs	...	...	...‡	...‡	...	...	...	...	...	*
		„ 20 (off) ... ... „	...	...	...‡	...‡	...	...	...	...	...	
57 Gen. No. 6465	**Spanners**	No. 115 lock nut	1	1	...	...	...	...	...	...	...	2
		„ 116 small	1	1	...	...	...	...	...	...	...	2
		„ 156	...	...	2	2	...	...	...	...	...	...*
		hydraulic buffer	...	...	...	...	...	...	...	...	...	...†

40185
8856

* Spare. ‡ per 10 or less number of carriages, etc.

§ When existing stock of Clerk's platforms is used up planks for trail and wheels will be issued. † *See* Appendix IX, pages 168 to 182.

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

TABLE 22—*continued.*	Gun.		Howitzer.		Carts, trench.	Wagons.				No. per Battery.
						Ammunition and store.	Platform.		Store, R.A., and limber.	
	40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.			Gun.	Gyns.		
Woolwich Section, No. 14—continued.										
Straps, lifting projectiles, R.B.L., 40-pr.	12	...	...	...	...	...	...	...	...	12
Straps, lifting projectiles, R.M.L., 25-pr.	...	18	...	...	...	...	...	...	...	18
Swingletrees, No. 1	1	...	1	1	...	...	1	1	...	5‡
Wagons, platform, gun, R. M. L., 6·6-in.	...	...	...	...	...	...	1	...	...	1
Wagons, platform, gyns	...	...	...	...	...	...	...	1	...	1
Washers, drag, 1st class	1	...	1	1	...	...	...	...	...	3‡
Wrenches, forked, knock-up, carriages, siege, top	1	1	...	...	...	...	...	...	...	2
Wrenches, pivot, No. 4	1	1	1	1	...	...	...	...	...	4
Woolwich Section, No. 16.										
Plummets, howitzer§	1	1	1	1	...	...	...	...	...	4
Spikes, gun, common	2	2	2	2	...	...	...	...	...	8
Spikes, gun, spring, C	...	...	...	1	...	...	...	...	...	1
Spikes, gun, spring, D	1	1	...	1	...	...	...	...	...	3
Vent servers, with lanyard	2	2	2	2	...	...	...	...	...	8
Woolwich Section, No. 17.										
Bits, vent, 17-inch	1	1	1	1	...	...	...	...	...	4
Ordnance, R.M.L., 8-inch howitzer, 70 cwt.	...	...	1	...	...	...	...	...	...	1
Ordnance, R.M.L., 6·6-inch howitzer	...	...	...	1	...	...	...	...	...	1
Ordnance, R.M.L., 40-pr.	1	...	...	...	...	...	...	...	...	1
Ordnance, R.M.L., 25-pr.	...	1	...	...	...	...	...	...	...	1
Pivots, elevating, B	1	...	1	1	...	...	...	...	...	3
Pivots, elevating, C	...	1	...	...	...	...	...	...	...	1
Prickers, vent, 17-in.	...	...	2	...	...	...	...	...	...	2
Prickers, vent, 12 ,,	2	2	...	2	...	...	...	...	...	6
Sights, R.M.L., crossbar, fore	1	1	2	2	...	...	...	...	...	...
Sights, R.M.L., crossbar, tangent	1	1	2	2	...	...	...	...	...	...
Sights, R.M.L., fore B	1	1	...	...	...	...	...	...	...	...
Sights, R.M.L., tangent	1	1	...	...	...	...	...	...	...	...
Woolwich Section, No. 18.										
Bags, extractor, projectile, 9-inch	...	...	1	1	...	...	...	...	...	2
Brushes, piasaba, R.M.L., 8-inch, 70 cwt., howitzer	...	...	1	...	...	...	...	...	...	1
Brushes, piasaba, R.M.L., 6·6-inch	...	...	...	1	...	...	...	...	...	1
Brushes, piasaba, R.M.L., 40-pr.	1	...	...	...	...	...	...	...	...	1
Brushes, piasaba, R.M.L., 25-pr.	...	1	...	...	...	...	...	...	...	1

... 1095

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* For use when laying double-decked platforms. ‡ Spare.

§ When the existing stock of these is used up, "plumets, laying" will be issued.

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

TABLE 22—*continued.*	Gun.		Howitzer.		Carts, trench.	Wagons.				No. per Battery.
							Platform.			
	40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.		Ammunition and store.	Gun.	Gyns.	Store, R.A., and limber.	
Woolwich Section, No. 18—contd.										
Caps, sponge* No. 5	...	1	...	...	...	...	...	...	...	1
,, 7	1	...	...	...	...	...	...	...	...	1
,, 9	...	...	...	1	...	...	...	...	...	1
,, 10	...	...	1	...	...	...	...	...	...	1
Cases packing for top carriage	1	1	...	...	...	...	...	...	...	2
small, containing parts for siege carriage only.	1	1	...	...	...	...	...	...	...	2
cartridge No. 2	...	...	2	...	...	...	...	...	...	2
,, 4	2	2	...	2	...	...	...	...	...	6
Cordage hawser, 3-strand, tarred 2½-inch fm.	...	...	...	...	...	...	...	...	...	56
1½-inch fm.	...	...	...	...	...	...	...	...	...	56
spunyarn, hemp ... lbs.	2	2	2	2	...	...	...	...	...	8
Extractors, projectile, R.M.L. 8-inch gun	...	...	1	...	...	...	...	...	...	1
6·6-inch howitzer	...	...	...	1	...	...	...	...	...	1
Lashings, tarred, 1-inch 24 feet	...	...	...	...	...	...	...	1	...	1
20 ,,	...	...	...	...	...	2	3	8	...	13
16 ,,	...	...	...	...	...	...	...	1	...	1
10 ,,	...	...	...	...	...	1	...	10	...	11
Lines, Hambro'	...	...	1	1	...	...	...	...	...	2
Marline ... lb.	...	...	3	3	...	...	...	...	...	6
Rammers, R.M.L. 8-inch howitzer, 70 cwt.	...	...	2	...	...	...	...	...	...	2
6·6-inch howitzer	...	...	...	2	...	...	...	...	...	2
40-pr.	1	...	...	...	...	...	...	...	...	1
25-pr.	...	1	...	...	...	...	...	...	...	1
jointed 40-pr.	1	...	...	...	...	...	...	...	...	1
25-pr.	...	1	...	...	...	...	...	...	...	1
Ropes cotton, white, 2-inch ... fm.	...	...	4	4	...	...	...	...	...	8
drag, heavy ... pairs	1	1	1	1	...	1	1	1	1	8
parbuckling, 18 fms., 4-in.	...	...	...	...	...	...	...	2	...	2
Selvagees, ordinary	2	2	2	2	...	...	...	...	...	8
Sponges, R.M.L. 8-inch, 70 cwt., howitzer	...	...	2	...	...	...	...	...	...	2
6·6-inch howitzer	...	...	...	2	...	...	...	...	...	2
40-pr. wire rope stave	1	...	...	...	...	...	...	...	...	1
wood stave	1	...	...	...	...	...	...	...	...	1
25-pr. wire rope stave	...	1	...	...	...	...	...	...	...	1
wood stave	...	1	...	...	...	...	...	...	...	1
Tampeons, R.M.L. 8-in., 70-cwt. howitzer	...	...	1	...	...	...	...	...	...	1
6·6-in.	...	...	...	1	...	...	...	...	...	1
40-pr.	1	...	...	...	...	...	...	...	...	1
25 ,,	...	1	...	...	...	...	...	...	...	1
Twine, whipping ... lb.	1	1	1	1	...	...	...	...	...	4
Wadhooks, R.M.L. 8-in., 70-cwt. howitzer	...	...	1	...	...	...	...	...	...	1
,, 46 ,, ,,	...	...	...	1	...	...	...	...	...	1
40-pr.	1	...	...	...	...	...	...	...	...	1
Worms, wadhook, No. 9	...	1	...	...	...	...	...	...	...	1
Woolwich Section, No. 19.										
Blocks, brake, R.M.L., 8-inch, 70 cwt., howitzer (spare.)	...	...	2	...	...	...	...	...	...	

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* Only to be used for sponges in transit or where stores are damp, or when kept in the open.

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

TABLE 22—*continued.*	Gun.		Howitzer.		Carts, trench.	Wagons.				No. per Battery.
	40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.		Ammunition and store.	Platform.		Store, R.A., and limber.	
							Gun.	Gyns.		
Woolwich Section, No. 19—continued.										
Planks, moving guns, half... 6 ft. × 12 in.	...	...	...	...	...	...	...	...	...	6
4 ,, × 12 ,,	...	...	...	...	...	...	...	...	...	3
whole, 10 ,, × 17 ,, fir	...	...	...	...	...	...	...	...	...	10
oak	...	...	...	...	...	...	...	...	...	3
Rollers, ground, 3 ft. × 6 in. diameter	...	...	...	...	...	...	...	...	...	4
2½ ,, × 5 ,, ,,	...	...	...	...	...	...	3	3	...	6
20 in. × 5 in. ,,	...	...	...	...	...	...	1	1	...	2
Scotches, large	...	...	...	...	...	...	...	...	...	10
medium	...	...	...	...	...	...	...	...	...	10
small	...	...	...	...	...	...	...	...	...	10
Skids, 3 ft. × 9 in. × 6 ,,	...	...	...	...	...	...	...	...	...	5
3 ,, × 6 ,, × 5 in.	...	...	...	...	...	...	...	...	...	5
3 ,, × 6 ,, × 3 ,,	...	...	...	...	...	...	...	...	...	5
3 ,, × 4 ,, × 5 ,,	...	...	...	...	...	...	...	...	...	5
dismounting, 14 ft. × 8 in. square prs.	...	...	...	...	...	...	...	...	...	1
14 ft. × 5½ in. square prs.	...	...	...	...	...	...	...	...	...	1
Woolwich Section, No. 20.										
Cartridges, drill, R.M.L., 8-in., 11½-lb.	...	...	1	...	...	...	...	...	...	1
6·6-in., 5 ,,	...	...	...	1	...	...	...	...	...	1
40-pr., 6¾ ,,	1	...	...	...	...	...	...	...	...	1
25 ,, 4½ ,,	...	1	...	...	...	...	...	...	...	1
Cases, powder, metal-lined, whole	6	5	9	4	...	...	...	...	...	24
quarter	...	...	...	...	...	...	...	...	...	1
Keys	1	1	1	1	..	...	...	...	...	4
Scissors, laboratory	1	1	1	1	...	...	...	...	...	4
Woolwich Section, No. 21.										
Cartridges, R.M.L., filled, silk cloth, 8-in. 11½ lbs. R.L.G.[2]	...	...	40	...	...	...	...	...	...	40
7 ,, ,,	...	...	30	...	...	...	...	...	...	30
3½ ,, ,,	...	...	30	...	...	...	...	...	...	30
6·6-in. 5 ,, ,,	...	...	...	40	...	...	...	...	...	40
3 ,, ,,	...	...	...	35	...	...	...	...	...	35
2 ,, ,,	...	...	...	25	...	...	...	...	...	25
40-pr., 6¾ lbs. R.L.G.[4]	100	...	...	...	...	...	...	...	...	100
25 ,, 4½ ,, ,,	...	100	...	...	...	...	...	...	...	100
Puffs, powder, 4-oz., filled	...	...	...	...	...	...	...	...	...	250*
pins	...	...	...	...	...	...	...	...	...	4*
Woolwich Section, No. 22.										
Fuzes†, percussion, direct action, No. 3	...	...	78	78	...	...	...	...	...	156
direct action, delay, No. 10.	...	...	39	39	...	...	...	...	...	78
R.L., No. 7	60	60	...	...	...	...	...	...	...	120
time, sensitive, long, No. 23	...	...	10	10	...	...	...	...	...	20
middle, No. 24	36‡	36§	10	10	...	...	...	...	...	92
time, 15 seconds, M.L. special priming, No. 42.	...	...	2	2	...	...	...	...	...	4

7614
3622

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* Annual allowance for observation of fire.
† Sections, dummy, of each of the above-named fuzes to be issued.
‡ Any 15 seconds with detonators on charge will first be used up.
§ Any 15 seconds M.L. on charge will first be used up.

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

TABLE 22—*continued.*

				Gun.		Howitzer.			Wagons.				
				40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70 cwt.	6·6-inch.	Carts, trench.	Ammunition and store.	Platform. Gun.	Platform. Gyns.	Store, R.A., and limber.	No. per Battery.
	Woolwich Section, No. 22—continued.												
57 Gib. 6888	**Handles,** light, G.S.			1	1	1	1	...	...	...	...	...	4
	Horns, powder †			...	...	...	...	...	...	...	...	...	1
	Implements, fuze shell, and cartridge		Bits, hook borer	6	6	6	6	...	...	...	...	...	24
			Cylinders, common	1	1	1	1	...	...	...	...	...	4
			Drivers, screw, Shrapnel, large.	1	1	1	1	...	...	...	...	...	4
			Extractors, fuze, small, rifled.	1	1	1	1	...	...	...	...	...	4
			Handles, hook borer	1	1	1	1	...	...	...	...	...	4
			Hooks, hook borer	1	1	1	1	...	...	...	...	...	4
			Keys, fuze, universal	1	1	2	2	...	...	...	...	...	6
			Pincers, Shrapnel, primer	1	1	1	1	...	...	...	...	...	4
	Lanyards, friction tube siege, No. 1			3	3	3	3	...	...	...	...	...	12
	Lights, long, G.S.			8	8	8	8	...	...	...	...	...	32
	Match, slow... lb.			...	...	...	...	...	...	...	...	...	2
	Pockets		fuze and hook borer	1	1	1	1	...	...	...	...	...	4
			tube land service	1	1	1	1	...	...	...	...	...	4
	Portfires, common			2	2	2	2	...	...	...	...	...	8
	Primers, light, G.S.			8	8	8	8	...	...	...	...	...	32
7614	**Straps,** tube box, long			2	2	2	2	...	...	...	...	...	8
3622	**Tubes** friction	copper, solid drawn,	with ball	125	125	125	125	...	...	...	...	...	500
			without ball	...	...	...	...	...	...	...	...	...	275*
		drill		1	1	1	1	...	...	...	...	...	4
	Woolwich Section, No. 24.												
	Bearers, shot R.M.L.		8-inch howitzer	...	...	1	...	...	...	...	...	...	1
			6·6-inch ,,	...	...	...	1	...	...	...	...	...	1
	Boxes, stars, incendiary			...	...	7	2	...	...	...	...	...	9
	Gas-checks, R.M.L.		8-in. howitzer, 70-cwt.	...	...	99	...	...	...	...	...	...	99
			6·6-in. ,,	...	...	...	99	...	...	...	...	...	99
			40-pr.	97	...	...	...	...	...	...	...	...	97
	Implements, fuze, shell, and cartridge, Spanners, gas check plug, 40-pr.			1	...	...	...	...	...	...	...	...	1
	Plugs, fuze hole		drill G.S.	2	2	...	...	...	...	...	...	...	4
			G.S.	96	96	100	100	...	...	...	...	...	392
	Shells, R.M.L., filled	common	8-in., 70-cwt. howitzer, studless.	...	...	78	...	...	...	...	...	...	78
			6·6-in. howitzer	...	...	...	78	...	...	...	...	...	78
			40-pr	60	...	...	...	...	...	...	...	...	60
			25 ,,	...	60	...	...	...	...	...	...	...	60
		Shrapnel	8-in. howitzer	...	...	20	...	...	...	...	...	...	20
			6·6-in. howitzer	...	...	...	20	...	...	...	...	...	20
			40-pr.	36	...	...	...	...	...	...	...	...	36
			25 ,,	...	36	...	...	...	...	...	...	...	36
		star ...	8-in.	...	...	2	...	...	...	...	...	...	2
			6·6-in.	...	...	...	2	...	...	...	...	...	2
	Shot, R.M.L., case		40-pr.	4	...	...	...	...	...	...	...	...	4
			25-pr.	...	4	...	...	...	...	...	...	...	4
	Stars, incendiary			...	...	700	200	...	...	...	...	...	900

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* Annual allowance for firing puffs for "observation of fire."

† Contains 1¼lb. of gunpowder which will supplied as required.

Equipment of Siege Train Companies, 40-pr. and 25-pr. R.M.L. Guns, 8-inch and 6·6-inch R.M.L. Howitzers—*continued.*

TABLE 22—*continued.*	Gun.		Howitzer.		Carts, trench.	Wagons.				No. per Battery.
							Platform.			
	40-pr. R.M.L.	25-pr. R.M.L.	8-inch, 70-cwt.	6·6-inch.		Ammunition and store.	Gun.	Gyns.	Store, R.A., and limber.	
Woolwich Section, No. 25.										
Boxes, lantern, bull's eye	1	1	1	1	...	...	...	...	...	4
Brooms, bass, heads, common	1	1	1	1	...	...	...	...	...	4
Brooms, bass, handles	1	1	1	1	...	...	...	...	...	4
Cans, oil, feeding, 1 pint	...	...	1	1	...	...	...	...	...	2
Irons, branding, letters, 2 letter (R.A.)	...	...	...	...	...	...	...	...	...	1
Lanterns, bull's-eye*	2	2	2	2	...	...	...	...	...	8
Scissors, lamp ... pairs	...	...	...	...	...	...	...	...	...	2
Woolwich Section, No. 28.										
Binoculars	...	...	...	...	...	...	...	...	...	1
,, cases	...	...	...	...	...	...	...	...	...	1
Books, signalling, message forms†	...	...	...	...	...	...	...	...	...	5
Cases, binoculars	...	...	...	...	...	...	...	...	...	1
Cases, message book	...	...	...	...	...	...	...	...	...	2
Flags, signal, Army, blue, 3 feet square	...	...	...	...	...	...	...	...	...	6
Flags, signal, Army, white, with stripe, 3 feet square	...	...	...	...	...	...	...	...	...	6
Flags, signal, Army, poles, 5 feet 6 inches	...	...	...	...	...	...	...	...	...	12
Telescopes, signalling	...	...	...	...	...	...	...	...	...	2
Woolwich Section, No. 29.										
Cases, telescope, 3-ft.	...	...	...	...	...	...	...	...	...	1
Chains, measuring 66 feet	...	...	...	...	...	...	...	...	...	1
Clinometers, Watkin‡	1	1	1	1	...	...	...	...	...	4
Range-finders, siege§	...	...	...	...	...	...	...	...	...	1
Rods, measuring, common, 6 feet	...	...	...	...	...	...	...	...	...	1
Sextants, pocket	...	...	...	...	...	...	...	...	...	1
Tapes, measuring, 50 feet	...	...	...	...	...	...	...	...	...	1
Telescopes, 3-feet	...	...	...	...	...	...	...	...	...	1

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* Oil and wick for these will be supplied by Army Service Corps, as required.

† Supplied from the War Office on requisition.

‡ As these become unserviceable they will be replaced by the "Clinometer large," which will, when issued to 40-pr. and 25-pr. R.M.L., be carried as convenient.

§ The "Apparatus, observation of fire" will be issued when the existing stock of these range-finders is used up, or as may be specially authorised.

Tools, Painting Carriages.

Brushes, paint, Ground 000	1	Triennial supply during peace only.
Brushes, paint, Sash tool, No. 2	2	
Brushes, paint, Sash tool, ,, 4	1	
Brushes, paint, Sash tool, ,, 6	1	
Brushes, paint, Sash tool, ,, 8	1	
Brushes, sable, writing, duck, large	2	
Caps, paint, 7½ inches diameter	1	
Caps, paint, 7 ,, ,,	1	

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MAGAZINE STORES.

Magazine stores are allowed to the Royal Artillery as under, for purposes shown in sub-headings.

TABLE 28.	Proportions.	Remarks.
STORES FOR BLENDING CARTRIDGES (PARA. 152), FILLING BLOWING CHARGES (PARA. 144), AND EXAMINING CARTRIDGES AND SHELLS.		
	Per Section of Defence.	
Woolwich Section, No. 20.		
Braces, magazine, Mark II ...	1	
Bits	1	
Cases, powder. metal lined, key	1	
Gauges, cartridge, length, universal	1	For B.L., R.B.L., and R.M.L. Ordnance.
Gauges, cartridge, ring	1 for each nature with grain or pebble powder charges.	
Knife, magazine	1	
Needles, magazine, phosphor bronze, 4-inch...	2	
Needles, magazine, phosphor bronze, 9 ,, ...	2	
Needles, magazine, nickel-silver, 1¾-in.	2	
Prickers, cartridge	1	
Scissors, magazine ... pairs	1	
Scales, weighing powder, 28-lb.	1	
Shoes, magazine ... ... pairs	2	
Silk, twist ... ... oz.	2	
Weights, brass, 8, 4, 2, 1, ½, ¼ oz.	1 of each.	
Weights, gun-metal, 14, 7, 4, 2, and 1 lb.	1 of each.	
Woolwich Section, No. 22.		
Funnels, cartridge	1	
Implements, fuze, shell, and cartridge—		
Drifts, common	1	
Drivers, screw, large ...	1	
Funnels, shell, copper, small	1	
Hammer, metal, 12 oz. ...	1	
Hooks, wad, G.S.	1	
Key, fuze and plug, G.S.*...	1	
Pincers, shrapnel	1	
Luting ... ... lb.	As required.	For closing lids of cartridge cases, &c.
Primers, shrapnel shell ...	10 per cent. of shrapnel in Equipment.	
Scoops, powder, 8½-inch ...	1	
Woolwich Section, No. 23.		
Wadmiltilts	As may be considered necessary by C.R.A.	For protecting ammunition.

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* Will be replaced by the "Key, plug, G.S.," as the present store is used up.

Magazine Stores—*continued.*

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TABLE 23—*continued.*	Proportions.	Remarks.
STORES FOR BLENDING CARTRIDGES (PARA. 152), FILLING BLOWING CHARGES (PARA. 144), AND EXAMINING CARTRIDGES AND SHELLS—*continued.*		
	Per Section of Defence.	
Woolwich Section, No. 24.		
Bags, primer, filled, 7 drs. ...	10 per cent. of shells filled bag in equipment.	
Discs, base, plug { large small	10 per cent. of shells in equipment.	
Implements, fuze, shell, and cartridge— Chisels, metal	1	
STORES FOR TRANSPORTING PURPOSES, FOR SHELL AND CARTRIDGE STORES, AND LIFTS, &C.		
	Per Section of Defence.	
Woolwich Section, No. 7.		
Knives, lamp	1 per work	For cleaning the grease out of the sockets of lamps.
Woolwich Section, No. 14.		
Trolleys, magazine	1 per 10·4-inch R.M.L. gun.	For moving shells.
Woolwich Section, No. 15.		
Barrows { magazine lamps ...	1 per work ...	For conveying the lamps.
Barrows { ,, ,, trays	3 per barrow ...	
Woolwich Section, No. 18.		
Blocks, wood, snatch, 8-inch...	1 per shell lift for 7-inch R.B.L. guns.	For changing the lead of the fall.
Woolwich Section, No. 20.		
Boots, magazine ... ... pairs	2 per magazine* ...	For wear over ordinary boots by Inspecting Officers, &c.
Cages, cartridge cylinder { A, B, or C	1 per cartridge lift ...	B.L. 6-inch and upwards, R.M.L. 7-inch and upwards.
Cages, cartridge cylinder { Ropes, { wire (*a*) ...	1 per cartridge lift for B.L. 12-inch and R.M.L. 12·5-inch guns.	In demands the total length of wire rope should be stated.
Cages, cartridge cylinder { Ropes, { hemp† (*a*)	1 per cartridge lift for B.L. 6-inch to 10-inch and R.M.L. guns from 7-inch to 12-inch 35 tons, and 1 per cartridge or shell lift for 7-inch R.B.L. guns.	To be demanded separately and made up locally according to length required. (*a*) To lift cages or cartridge cases.
Cages, cartridge cylinder { Counterweights ...		
Cages, cartridge cylinder { Hooks...		
Cages, cartridge cylinder { Thimbles		

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* For cartridge stores or other buildings under magazine conditions, in works having no magazines, special issues have been authorised.

† In cartridge or shell lifts, where there are evident signs of damp, the hoisting rope is to be kept in a dry store, and not reeved until required.

Magazine Stores—*continued.*

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TABLE 23—*continued.*	Proportions.	Remarks.
STORES FOR TRANSPORTING PURPOSES, FOR SHELL AND CARTRIDGE STORES, AND LIFTS, &C.—*continued.*		
Woolwich Section, No. 20—continued.		
Cases, powder, metal lines, keys	1 per magazine or cartridge store where metal-lined cases are stored.	
Lamps, magazine* { partition passage ... wall ...	According to the construction of the magazine.	
Shoes, magazine ... ... pairs	1 per cartridge lift and 1 per shell lift when under magazine conditions. 2 per cartridge store and 2 per shell store when under magazine conditions.	For B.L. 12-inch and R.M.L. 12·5-inch guns, 2 pairs per lift.
Stages, magazine...	1 per cartridge store where required.	
Tape, white { 1¼ inch ... ... ⅞ ,, ... ¼ ,, ...	As required	For sealing tin cylinders and boxes.
Woolwich Section, No. 22.		
Implements, fuze, shell, and cartridge } Keys { fuze and plug, G.S.‡ ...	1 per expense shell store.	To loosen plugs.
base, fuze, and plug ...	1 per expense shell store where there are pointed headed shell.	
Lanterns, hand, magazine† ...	1 per work	Fitted with oil lamp.
Shellac ... ... oz.	As required.	For sealing tin cylinders and boxes.
Woolwich Section, No. 22A.		
Cages, projectile, B.L., or Q.F., 6-inch	1 per circular shell lift.	
Woolwich Section, No. 23.		
Wadmilltilts	As may be considered necessary by officers commanding R.A.	For protecting ammunition.

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* Candles for these are supplied by Army Service Corps as required.

† Colza oil and wick for these are supplied by the Army Service Corps as required.

‡ Will be replaced by the "Key, plug, G.S." as the present store becomes used up.

Magazine Stores—*continued.*

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TABLE 23—*continued.*	Proportion.	Remarks.
STORES FOR TRANSPORTING PURPOSES FOR SHELL AND CARTRIDGE STORES AND LIFTS, &c.—*continued.*		
Woolwich Section, No. 24.		
Blocks, wood, or shell holder...	1 per gun group.	For pointed headed projectiles. To be made locally.
Brush, cement	As required.	For applying shellac cement.
Cages, shell, R.B.L., 7-in. ...	1 per shell lift.	
Clips, lifting projectiles, 7-inch to 12·5-inch.	2 per shell lift.	R.M.L. ordnance only.
Woolwich Section, No. 25.		
Cans, oil, feeding, 1 pint ...	1 per work	For feeding the lanterns.
Scissors, lamp ... ... pairs	1 ,, ...	
Woolwich Section, No. 29.		
Thermometers common	1 per magazine containing gunpowder, dry guncotton, or cordite. 1 per work for cartridge store.	For use in ventilating magazines.
Thermometers wet and dry bulb.*	1 or more per sub-district in which are magazines.	To ascertain the state of atmosphere.

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* Wick and muslin will be supplied as required (*see* Regulations for Magazines, etc.).

TABLE 24. Army Books and Forms for Armaments.

	Army No.	Subject.	Description.
	Books.		
	36	Expenditure	
	37	Demands	
	195	Equipment	Receipt and issue journal.
	209 A B C, or E	,,	Annual account for places mentioned in para. 236.
	211	,,	Distribution book for Master Gunners.
	Forms.		
	B 269	Station and regimental practice	Report.
	F 754	Stores	Convoy note.
	G 800	Stores for existing armaments	Annual estimate.
	G 801	Stores for other than existing armaments	,,
	G 805	Ammunition to replace that expended at practice	Demand.
	G 819	Changes in armaments	Quarterly return.
	G 832	Entries made in A.F.G. 835	Annual report.
	G 835	Examination of garrison carriages	Memo.
	G 844	Mounted ordnance	Annual returns.
	MS.	Dismounted ordnance	,,
	G 864	Gunpowder, examination of	Report.
	G 872	R.M.L. Ordnance	Annual return.
	G 875	Ordnance which have fired prescribed number of rounds	Statement.
	G 877	Regulations for lighting magazine	Regulations.
	G 879	Magazine, &c., care of	,,
A.O. 11 98	G 880	Magazines, Tables A and B, as to weight of water and temperatures at which they may be opened	Regulations.
	G 885	Ordnance and general stores	Annual account.
	G 899	Directions for making up cartridges for M.L. and B.L. rifled ordnance	Regulations.
	G 905	Ammunition expended in firing salutes	Statement.
	G 907	Lubrication of carriages and slides	Regulations.
	G 908	Equipment of garrison ordnance	Statement.
	G 908A	Royal Artillery stores	Annual account.
	G 910	Instructions for the preparation of shells and fuzes, rifled ordnance	Regulations.
	G 915	Care of disappearing carriages	General instructions.
	G 920	History sheet of range-finding instruments	Record.
	G 925	B.L., R.B.L. and Q.F. Ordnance	Annual return.
57 Gen. No. 7084	G 944	Thermometers	Daily record.
	G 951	Record of joint inspection of gun emplacements	Statement.
		Amendments to above	Annual Return.
	G 968	Camp equipment, regular services	Requisition.
	G 980	Stores	Carrier's note.
	G 997	Equipment in general (*blank*)	Requisition.
	G 1027	Equipment in general, materials for repair	,,
	G 1029	Paint, &c., for armaments	Requisition.
	G 1033	Equipment in general (*blank*)	Receipt and issue voucher.
	G 1049	Ammunition and stores	Transfer, conversion, and expenditure voucher.
	G 1085	Stores, deficient	Half-yearly report.
	O 1677	Cleaning and painting guns, &c.	Working pay list.
	P 1925	Equipment in general (*blank*)	Expense voucher.
	P 1926	Artillery practice ammunition	Expense voucher.

2. GENERAL LISTS OF COMPONENT AND SPARE PARTS.

CONTENTS.

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Slides, L., R.M.L., component and spare parts for		488
Beds and carriages for medium ordnance, component and spare parts for		526
Moncrieff wrought-iron garrison carriages, component and spare parts for		546
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Carriages, garrison, quick-firing, 6-inch to 12-pr., component and spare parts for		562
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TABLE OF COMPONENT AND SPARE PARTS, LAND SER

NOTE.—The letter S denotes the guns to which the items are issued

Designation.	Details.	
COMPONENT	AND SPARE PARTS.	
Bands, elevating Mark II carriage, garrison, barbette	Wrought iron, with pivot and keep pin ...	1
Bands, elevating Mark I carriage, garrison, disappearing	Wrought iron, with two pivots, collars, keep pins, and set screw	
Bands, elevating Mark II carriage, garrison, disappearing	Wrought iron, with two collars and two keys, with chain and eye pin	
Bands, elevating Mark I	Wrought iron, with two brackets, A and B, 2 pivots, 2 washers, 2 keep pins, and 8 fixing screws; for guns on Mark I disappearing carriages	2
Bands, elevating Mark II	Wrought iron, with two pivots, 2 keep pins, and 2 set screws; for guns on Mark III disappearing carriages	
Bolts contact	Steel, with contact, insulating bush, leather collar with waxed thread, case, nut, and retaining nut	3
Bolts stop	Steel, for breech screw	4
Boxes, slide	Steel, in 2 parts	5
	Steel, in 2 parts, with 2 keys, 2 keep pins, lanyard-bolt, nut, and spiral spring	6
Brackets contact	Bronze, in 2 parts, with 5 fixing screws (3 hexagon and 2 flat headed), contact with lead, insulating bush; terminal with insulating bush, washer and securing nut; and terminal cover lead	7
Brackets elevating	Bronze, with 2 studs, 2 keep pins, and 6 fixing screws	8
Brackets elevating	Bronze, with 2 pivots, 2 keep pins, 5 hexagon-headed and 1 flat-headed fixing screws	9
Brackets foresight† left	Bronze, with 2 fixing screws	10
Brackets foresight† right	,, ,, ,, ,, ...	11
Brackets foresight, land left	Bronze, with 4 fixing screws	12
Brackets foresight, land right ...	,, ,, ,, ,, ...	13
Brackets lanyard guide	Steel, with 2 fixing screws and set screw... ...	14
Brackets retaining carrier	Steel, with 4 fixing screws	15
Brackets spindle worm	Bronze, with 4 fixing screws...	16
Brackets tangent, sights left ...	Bronze, with set screw...	17
Brackets tangent, sights right ...	,, ,, ,, ...	18
Brackets tangent sights, land left ...	Bronze, with socket, set screw, and 4 fixing screws	19
Brackets tangent sights, land right ...	,, ,, ,, ,, ,, ,,	20
Brackets tangent, sight, land, right ...	Bronze, with socket, set screw, and 3 fixing screws, 2·975-inches long and 1-6·7-inches	21
Brackets telescopic sight	Steel, with 2 fixing screws	22

*** The percentage of spare held in Army Ordnance charge is calculated on the**

† A few guns only are fitted thus.

APPURTENANCES AND IMPLEMENTS FOR B.L. VICE GUNS.

spare. The figures show the components of the guns and their number.

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in., Mark IX.	8-in. Marks VII and VIIA.	6-in. Marks IV and VI.	6-in. Mark V.	5-in. Marks IV and V.	4-in. Marks V and VI.	In R.A. Charge.	In A.O. Charge.*
1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
3	...	...	...	...	...	...	...	8	...	...	...	...	...	1 per gun...	25 per cent.
4	1	1	1	...	...	1	1	...	...	1	...	1	1	1 per section of defence	...
5	1	1	1	1	1	1	1	1	...	...	...	...	...		
6	...	...	...	...	...	...	...	...	1	1	1	1	1		
7	1	...	...	...	...	...	...	...	...	...	...	...	...		
8	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
13	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...
15	...	...	...	...	...	...	...	...	...	...	1	...	...	1 per section of defence	...
16	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
17	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
21	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...

otal quantity of spare per district in R.A. charge, and is in addition thereto.

Table of Component and Spare Parts, Appurtenances and

	Designation.		Details.	
		COMPONENT	AND SPARE PARTS—*continued.*	
	Carriers		Bronze, with hinge bolt and washer, hinge roller and axis pin; bearing roller (coned) with axis pin; 4 rollers for breech screw, with axis pins; cover plate, fixing screw and washer; stop for breech screw, with spiral spring; lever, directing, stop and axis pin; lever retaining carrier (closed), flat spring, and 2 fixing screws; stop retaining carrier (open), with spiral spring; releasing spindle, handle and keep pin, collar and keep pin, and lever, directing stop (retaining carrier open)	1
			Bronze, with hinge bolt, washer, rack pinion, worm wheel, collar, and 2 fixing screws; clutch with handle, hinge roller and axis pin, bearing roller (cone) with axis pin, 4 rollers for breech screw, with axis pins; cover plate, fixing screw, and washer; stop for breech screw, with spiral spring; lever directing stop, and axis pin; lever, retaining carrier (closed), flat spring and 2 fixing screws; stop retaining carrier (open), with spiral spring, spindle releasing handle and keep pin, collar and keep pin and lever, directing stop (retaining carrier open), chain and stop pin	2
			Bronze, with hinge bolt and lubricating screw, bearing collar, washer and keep pin; lever retaining carrier open, with axis pin, washer, keep pin, flat spring and fixing screw; lever retaining carrier (closed), with axis pin, washer, keep pin, actuating pin and spiral spring; and stop for breech screw with spiral spring, lever, axis pin, washer, and keep pin	3
			Bronze, with hinge bolt, washer, and keep pin; lever, retaining carrier open, with axis pin; washer and keep pin, flat spring and fixing screw; lever retaining carrier closed, with axis pin, washer and keep pin, plunger, and spiral spring	4
57 Malta 1622	**Catches**	retaining ratchet lever	Steel, with axis pin, washer, and keep pin ...	5
			Steel, with axis pin, washer, 2 keep pins, and bracket, with 2 fixing screws	6
		cam, lever	Steel, with fixing screws	7
	Clips, cam, lever		Steel, with spiral spring, bracket, stop screw, and 2 fixing screws, for guns on disappearing carriages	8
	Contacts	electric	Aluminium bronze, with lead, insulating bush, 2 washers and retaining nut, terminal with insulating bush, washer and securing nut	9
		electric, frame, fixed	Aluminium bronze, with insulating bush and washer; washer, case, retaining nut and fixing screw; terminal with insulating bush, washer and retaining nut; (and bracket with 2 fixing screws for 12-inch) (and terminal cover lead with 3 screws for 10-inch guns, and 2 screws for 9·2-inch IV to VIc guns)	10

* *See* footnote * page 340,

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C. Mk. IVA	9·2-in., Mark IX.	8-in., Marks VII and VIIA.	6-in., Marks IV and VI.	6-in., Mark V.	5-in., Marks IV and V.	4-in., Marks V and VI.	In R.A. Charge	In A.O. Charge.*
1	...	...	...	1	...	...	...	...	...	...	...	...	...	1 per section of defence.	...
2	...	...	...	...	1	...	...	...	...	...	...	...	...		...
3	...	...	...	...	...	...	...	...	1	...	...	...	...		...
4	...	...	...	...	...	...	...	...	...	...	1	...	...		
5	...	...	1	...	...	1	1	...	...	...	...	...	...	..	...
6	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
7	...	...	S	S	...	S	S	...	...	...	...	...	...	4 per gun	25 per cent
8	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
9	S	...	...	...	...	...	...	...	...	...	...	...	...	1 per gun	25 per cent.
10	...	1	1	...	...	1	1	...	...	...	...	...	...	1 per section of defence	...

Table of Component and Spare Parts, Appurtenances and

Designation.		Details.	
	COMPONENT	AND SPARE PARTS—*continued.*	
Contacts	electric, fixed	Aluminum bronze, with stud, bracket, and insulating bush, 2 washers, retaining nut, and 2 fixing screws; terminal with insulating bush, washer, and retaining nut and terminal cover lead	1
	electric, safety arrangement†	...	2
	lock, electric B	Aluminium bronze, consisting of block with 2 terminal points, insulating bush and washer; washer, retaining nut and lead; upper contact with insulating bush and washer, case, nut, and spiral spring	3
Covers	lead	Bronze, with 4 fixing screws	4
	worm and worm-wheel	Bronze, in 2 parts, with 2 keep pins and 2 fixing screws	5
Cups, obturating	large	Steel	6
	small	,,	7
Discs	cup	Brass, adjusting obturating cup	8
	pad, obturating adjusting	Steel	9
	pad, obturating protecting sets	Tin, 2 to a set, front and rear	10
Extractors	locks, electric, B, C, C^1, and percussion D	Steel, with axle pin, spiral spring and lanyard	11
	Locks, 12-in. and 9·2-in. wire guns	Steel, electric and percussion, with axis pin, spiral spring and lanyard	12
Frames, breech, mechanism		Bronze, with 6 fixing screws, cover for worm wheel, with axis pin and fixing screw; set screw for worm spindle, and retaining bush; set screw for carrier hinge bolt with retaining bush; terminal with insulating bush in 2 parts, case, nut, and screw keep pin; and cover with indiarubber washer and fixing screw	13
Guides for lock		Steel, with spiral spring and set screw	14
Lanyard bolts		Steel, with nut and spiral spring	15
Lanyard guides		Steel	16
Levers	cam	Steel, with hinge bolt, nut, and keep pin	17
		Steel, with hinge bolt and keep pin (except 6-inch V.) (washer 6-inch V)	18
		Steel, with hinge bolt and keep pin, catch and spiral spring (except for guns on disappearing carriages)	19
	cocking, lock, percussion D	Steel, with axis pin	20

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* *See* footnote * page 340.

† The detail of "contact, electric, safety arrangement" differs for 10 in., Mark V. *See* Priced Vocabulary of Stores, 1898.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in., Mark IX.	8-in., Marks VII and VIIA.	6-in., Marks IV and VI.	6-in., Mark V.	5-in., Marks IV and V.	4-in., Marks V and VI.	In R.A. Charge	In A.O. Charge.*
1	...	...	...	1	1	...	...	...	...	...	...	...	...	1 per section of defence	...
2	...	...	1	1	...	1	1	...	...	1	1	...	...	...	...
3	S	S	S	S	S	S	S	...	...	...	...	...	...	1 per guns	25 per cent.
4	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	S	...	S	...	...	2 per 2 guns	
7	...	...	...	...	...	...	...	...	1	...	1	...	...	2 per 2 guns	
8	...	...	...	...	...	...	...	...	S	...	S	...	...	2 per gun	
9	2	2	2	2	2	2	2	2	...	2	...	2	2	2 per 2 guns	25 per cent.
10	1	1	1	1	1	1	1	1	...	1	...	1	1	2 per gun	
11	S	S	S	S	S	S	S	...	...	...	...	...	...	1 per gun	25 per cent.
12	...	...	...	...	...	...	...	S	...	...	...	...	...	1 per gun	25 per cent
13	...	...	...	...	...	...	...	1	...	...	...	...	...		
14	...	...	...	...	...	...	...	...	...	...	1	...	...		
15	...	...	...	...	...	...	...	...	S	S	S	S	S	1 per 2 guns	25 per cent.
16	...	...	...	...	...	...	...	...	...	1*a*	...	1	1	*a*V.C.P. & Barbette	
17	S	S	S	S	S	S	S	...	...	...	...	...	...	1 per section of defence	
18	...	...	...	...	...	...	...	...	S	S	S	S	S		
19	...	...	...	...	...	...	...	...	...	S	...	...	...		
20	S	S	S	S	S	S	S	...	...	...	...	...	...	1 per 2 guns	25 per cent.

· 9·2 in, U.C., Mark I, 9·2 in., Marks IV and VI., 6 in., Marks IV and VI, and 6 in,

Table of Component and Spare Parts, Appurtenances and

Designation.		Details.	
	COMPONENT	AND SPARE PARTS—*continued.*	
Levers	ratchet, breech screw ...	Steel, locking and unlocking, with removable plate and 3 fixing screws, axis pin, washer, and keep pin; ratchet wheel with tappet and fixing screw: pawl with axis pin, handle, pin directing pawl with spiral spring, link for ratchet, link for sliding block with hinge bolt, and sliding block with gudgeon (and with catch cam lever and fixing screw for guns on disappearing carriages)	1
	spindle worm	Steel...	2
	spindle worm, heavy ...	Bronze	3
Locks	electric, B	Steel, for wired tubes, consisting of lock frame, block with two terminal points, insulating bush and washer; washer, retaining nut, lead, and retaining cap; upper contact with insulating bush and washer; washer, case, nut, spiral spring, and cap retaining contact; cover for lead; guide bolt with spiral spring, handle, and keep pin; extractor with axis pin, spiral spring and lanyard	4
	electric	Steel, for wired tubes, with actuating lever in two parts, with keep pin, stop catch, spiral spring, nut, and set screw, sleeve with spiral spring and set screw; bush firing hole; lower contact with terminal point, insulating bush in two parts, leather washer, case, nut, spiral spring and cover; extractor with axis pin, spiral spring and lanyard	5
Locks	percussion, D	Steel, consisting of lock frame; striker with spindle, and keep pin, spiral spring, firing pin, and retaining cap; cocking lever with axis pin; trigger with axis pin, and spiral spring; guide bolt with spiral spring, handle, and keep pin; extractor with axis pin, spiral spring and lanyard	6
	percussion	Steel, with actuating lever in two parts, with keep pin, stop catch, spiral spring, nut, and set screw, sleeve with spiral spring and set screw; bush firing hole; striker in three parts, with main spring, retaining cap, and keep pin; trigger in two parts, with spiral spring; safety plunger with spiral spring; extractor with axis pin, spiral spring and lanyard	7
	percussion	Steel, consisting of lock frame, hammer, hinge pin and flat spring; trigger, axis pin, flat spring and fixing screw; trigger-guard and fixing screw; striker, spiral spring, securing nut, and set screw; guide bolt, spiral spring (two spiral springs for 6-inch Marks IV and VI), head, and keep pin	8

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* *See* footnote * page 340.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2 in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in., Mark IX.	8-in., Marks VII. and VIIA.	6-in., Marks IV and VI.	6-in., Mark V.	5-in., Marks IV. and V.	4-in., Marks V. and VI.	In R.A. Charge.	In A.O. Charge.*
1	1	1	1	1	1	1	1	...	...	...	...	...	...	1 per section of defence	
2	...	...	S	...	S	...	S	...	...	...	...	...	...		
3	...	...	...	...	...	...	...	S	...	...	...	...	...		
4	1	1	1	1	1	1	1	...	...	...	...	...	...	1 per 2 guns	25 per cent.
5	...	...	...	...	...	...	...	1	...	...	...	...	...	1 per 2 guns	25 per cent.
6	1	1	1	1	1	1	1	...	...	...	...	...	...	1 per 2 guns	25 per cent.
7	...	...	...	...	...	...	...	1	...	...	...	...	...	1 per 2 guns	25 per cent.
8	...	...	...	...	...	...	...	...	1	1	1	1	1	1 per 2 guns	25 per cent.

Table of Component and Spare Parts, Appurtenances, and

Designation.	Details.	
COMPONENT	AND SPARE PARTS—*continued.*	
Pads, obturating	Asbestos, canvas-covered	1
Pins, firing, lock, percussion, D	Steel	2
Pins, keep, axis pin, ratchet lever lever retaining	Steel, split, length 3-inches	3
Pins, keep, axis pin, carrier, closed	Steel, split, length 1·1-inch	4
Pins, keep, axis pin, carrier, open	,, ,, ,, ·95 ,,	5
Pins, keep, axis pin, lever, stop breech screw	,, ,, ,, ·7 ,,	6
Pins, keep, guide for lock	,, bulb-head, length 1-inch	7
Pins, keep, hinge bolt, carrier ring	,, ,, ,, 6·8-inches	8
	,, ,, ,, 3·5 ,,	9
	,, ,, ,, 4·2 ,,	10
	,, ,, ,, 4 ,,	11
Pins, keep, hinge bolt, carrier	,, split, length 2·4-inches	12
Pins, keep, hinge bolt, cam lever	,, ,, ,, 1·8 ,,	13
	,, bulb-head, length 3-inches	14
	,, ,, ,, 2·2 ,,	15
	,, ,, ,, 2 ,,	16
Pins, keep, keys, box slide	,, length 1·6-inch	17
	,, ,, 1·425 ,,	18
	,, ,, 1·25 ,,	19
Pins, keep, lever actuating locks, 12-inch and 9·2-inch wire guns	,, electric and percussion, bulb head, length 2·1-inches	20
Pins, keep, nut hinge bolt, cam lever	,, split, length 2·7-inches; also axis pin ratchet lever	21
	,, split, length 3·5-inches	22
Pins, keep, nut hinge bolt, carrier ring	,, ,, ,, 3·25 ,,	23
Pins, keep, nut, latch, carrier ring	,, taper ,, 1-inch	24
Pins, keep, nut, worm spindle	,, split ,, 2·3-inches	25
Pins, keep, pin, axis, coned rollers	,, bulb-head, length 2·5-inches	26
Pins, keep, pivot, elevating bracket	Iron ring-head, length 4·4-in.	27
Pins, keep, pivot, plate, elevating carriage garrison disappearing Mark I	Steel ,, ,, 6 ,,	28
Pins, keep, pivot, screw, latch, carrier ring	,, bulb-head, length 3·5-in.	29
Pins, keep, spindle, worm	,, flat, split ,, 4·5 ,,	30
	,, ,, ,, 4 ,,	31
Pins, keep, studs, elevating	,, taper, length 7-in.	32
Pinions, rack	Steel, gear controlling breech screw	33
Plates, elevating carriage garrison disappearing, Mark I	Bronze, with 2 pivots and 2 keep pins, 2 washers and 2 keep pins, and 8 fixing screws	34
Plates, elevating, barbette	Bronze, with 1 pivot "J," 1 keep pin (6-in,) and 6 fixing screws	35
Plates, hinge	Steel, with 2 fixing screws for 9·2-inch C Mark I guns (3 fixing screws and set screw for 9·2-inch U.C. Mark I guns)	36
Plates, preserving, tangent sight	bronze, with set screw	37
Plates, preserving, telescopic ,,	,, ,, 2 fixing screws	38

* See footnote * page 340.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Mark IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in., Mark IX.	8-in., Marks VII and VIIA.	6-in., Marks IV and VI.	6-in., Mark. V.	5-in., Marks IV and V.	4-in., Marks V and VI.	In R.A. Charge.	In A.O. Charge.*
1	1	1	1	1	1	1	1	1	...	1	...	1	1	2 per gun	25 per cent.
2	S	S	S	S	S	S	S	...	...	...	...	...	...	4 per gun	
3	S	S	...	...	...	...	...	...	...	...	...	...	...	2 per 2 guns	
4	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per 2 guns	
5	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per 2 guns	
6	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per 2 guns	
7	...	...	...	...	...	...	...	...	...	...	...	S	S	2 per 2 guns	
8	...	...	...	...	...	S	...	...	...	...	...	...	...	2 per 2 guns	
9	...	...	...	...	...	...	...	...	...	S	...	...	...	2 per 2 guns	
10	...	...	...	...	...	...	...	...	...	...	...	S	...	2 per 2 guns	
11	...	...	...	...	...	...	...	...	...	...	...	...	S	2 per 2 guns	
12	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per 2 guns	
13	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per 2 guns	
14	...	...	...	...	...	...	...	...	...	S	...	...	...	2 per 2 guns	
15	...	...	...	...	...	...	...	...	...	...	...	S	...	2 per 2 guns	
16	...	...	...	...	...	...	...	...	...	...	...	...	S	2 per 2 guns	
17	...	...	...	...	...	...	...	...	S	...	...	...	...	4 per 2 guns	
18	...	...	...	...	...	...	...	...	...	S	S	...	...	2 per gun	
19	...	...	...	...	...	...	...	...	...	...	...	S	S	4 per 2 guns	
20	...	...	...	...	...	...	...	S	...	...	...	...	...	2 per 2 guns	
21	...	...	S	S	S	S	S	...	...	...	...	...	...	2 per gun	
22	S	S	...	...	...	...	...	...	...	...	...	...	...	2 per 2 guns	
23	...	...	S	...	...	...	...	...	...	...	...	...	...	2 per 2 guns	
24	...	...	S	...	...	S	S	...	...	...	...	...	...	2 per 2 guns	
25	...	...	S	...	...	S	S	...	...	...	...	...	...	2 per 2 guns	
26	S	...	...	...	...	...	...	...	...	...	...	...	...	1 per gun 12-inch I.A. only	
27	...	...	...	...	...	...	...	...	S	...	...	...	...	4 per 2 guns	
28	...	...	...	S	...	...	...	...	...	...	...	...	...	2 per gun	
29	...	...	S	...	...	...	S	...	...	...	...	...	...	2 per 2 guns	
30	...	...	S	...	...	...	...	...	...	...	...	...	...	1 per gun	
31	...	...	...	...	...	...	S	...	...	...	...	...	...	1 per gun	
32	S	S	...	...	...	...	...	...	...	...	...	...	...	2 per gun	
33	...	...	S	...	S	...	S	...	...	...	...	...	...	1 per section of defence.	
34	...	...	...	2	...	...	...	...	S	...	...	...	...		
35	...	...	...	...	1	...	...	...	...	...	...	...	...		
36	...	...	...	1	1	...	...	...	...	...	...	...	...	1 per section of defence.	
37	...	...	...	...	...	...	...	...	...	...	...	1	1		
38	...	...	...	...	...	...	...	...	...	...	...	1	1		

Table of Component and Spare Parts, Appurtenances and

Designation.	Details.	
COMPONENT	AND SPARE PARTS—*continued.*	
Plugs, preserving, foresight ...	Bronze	1
Racks, breech screw	Steel	2
Rings carrier	Steel, with hinge bolt and keep pin; roller frame with 7 coned rollers (with axis pins and keep pins, bearing plate and 4 fixing screws for Mark IA) (2 bearing plates for Mark I), 2 bearing rollers with axis pins and blocks; retaining clip with axis pin and flat spring, and friction roller with axis pin	3
	Bronze with hinge bolt, 4 bearing rollers with blocks, retaining clip with axis pin and flat spring; roller frame with 7 coned rollers, 2 bearing plates and washer	4
	Bronze, with hinge bolt (nut and keep pin and distance piece for 10-inch), (collar and 2 fixing screws for 9·2-inch), rack pinion, worm wheel (clutch with handle for 9·2-inch), worm spindle with worm, keep pin, 4 washers, nut, and keep pin; worm spindle lever; roller frame with 7 coned rollers, 2 bearing plates and washer; clip with axis pin and flat spring; latch with spiral spring, nut and keep pin; lever with axis pin and keep pin, link with nut, and keep pin, and handle retaining latch with keep pin	5
	Steel, with hinge bolt and keep pin; retaining clip with axis pin, check screw and flat spring; preserving block for latch in 2 parts with fixing screw; and guide for lock in 2 parts with spiral spring and bolt	6
	Bronze, with hinge bolt, washer and keep pin; roller frame with 7 coned rollers and 2 bearing plates; clip with axis pin and flat spring; catch cam lever down with lever, axis pin and spiral spring; latch with spiral spring, nut and keep pin; lever, link, nut and keep pin, pivot, screw and keep pin	
	Steel, with hinge bolt and keep pin; retaining clip, axis pin and flat spring; preserving block for latch in 2 parts with fixing screw; and guide for lock with spiral spring and keep pin	8
	Bronze, with hinge bolt and screw preserving eye-bolt; roller frame with 8 coned rollers and 2 bearing plates; contact bolt with contact, insulating bush, leather collar with waxed thread, case, nut and retaining nut; friction roller with axis pin; retaining clip with spiral spring; worm, spindle with worm and 4 washers; lever worm spindle heavy; worm wheel; bevel wheel with crank, securing screw, set screw, and retaining bush.	9
obturating	Copper	10

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* See footnote * page 3

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C Mk. IVA.	9·2-in., Mark IX.	8-in., Marks VII and VIIA.	6-in., Marks IV and VI.	6-in., Mark V.	5-in., Marks IV and V.	4-in., Marks V and VI.	In R.A. Charge.	In A.O. Charge.*
1	…	…	…	…	…	…	…	…	…	…	…	1	1		
2	…	…	S	…	S	…	S	S	…	…	…	…	…	1 per section of defence.	
3	1	…	…	…	…	…	…	…	…	…	…	…	…		
4	…	1	…	…	…	…	…	…	…	…	…	…	…		
5	…	…	1	…	…	…	1	…	…	…	…	…	…		
6	…	…	…	…	…	…	…	…	…	1	…	…	…		
7	…	…	…	…	…	1	…	…	…	…	…	…	…		
8	…	…	…	…	…	…	…	…	…	…	…	1	1		
9	…	…	…	…	…	…	…	1	…	…	…	…	…		
10	…	…	…	…	…	…	…	…	S	…	S	…	…	1 per gun	25 per cent.

Table of Component and Spare Parts, Appurtenances and

Designation.	Details.	
COMPONENT	AND SPARE PARTS—*continued.*	
Screws, bracket elevating, fixing...	Steel...	1
	,, flat headed	2
	,, hexagon head	3
Screws, bracket elevating, preserving ...	,, ...	4
Screws, breech	Steel, with end plate and 6 fixing screws; cam lever with hinge bolt, nut and keep pin; catch cam lever up in 2 parts, with retaining screw (except 12-in. I and IA) and flat spring; catch cam lever down with lever (in 2 parts for 12-in. I and IA), axis pin and spiral spring (and set screw for 12-in. I and IA); link for cam groove; (rack for breech screw for 10-in. and 9·2-in.); and screw preserving eye-bolt (except 9·2-in.)	5
	Steel, with end plate and 6 fixing screws; cam lever with hinge bolt, nut, and keep pin; catch cam lever up in 2 parts, with retaining screw and flat spring; and link for cam groove	6
	Steel, with end plate and 6 fixing screws; cam lever with hinge bolt, nut, and keep pin; catch cam lever up (in 2 parts with retaining screw and flat spring 9·2-in. C Mark I) (with lever, flat spring, and 2 studs 9·2-in. U.C. Mark I); catch cam lever down with spiral spring, lever, and axis pin; and link for cam groove	7
	Steel, with end plate and 6 fixing screws; rack, cam lever with hinge bolt and set screw and block preserving recess for cam lever	8
	Steel, with end plate, guide for link and 6 fixing screws, cam lever, hinge bolt, and keep pin; catch cam lever with releasing lever, axis pin, and spiral spring; link for cam groove, stop pin for lock with directing lever and spiral spring	9
	Steel, with end plate and 2 securing screws, disc, handle and 2 set screws; cam lever with hinge bolt and washer, catch cam lever up with lever, axis pin, and spiral spring; catch cam lever down, with bracket and 2 fixing screws, lever, axis pin, and spiral spring; stop lever for lock, axis spring, flat spring and fixing screw	10
	Steel, with (Mark II cam lever with hinge bolt and keep pin; catch cam lever with spiral spring; except for guns on disappearing carriages) (Mark II* or III cam lever with hinge bolt and keep pin for guns on disappearing carriages); and stop pin with spiral spring	11
	Steel, with cam lever with hinge bolt and keep pin; and stop pin with spiral spring and guide screw	12

See footnote * page 340.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in., Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in., Mark IX.	8-in., Marks VII and VIIA.	6-in., Marks IV and VI.	6-in., Mark V.	5-in., Marks IV and V.	4-in., Marks V and VI.	In R.A. Charge.	In A.O. Charge.*
1	8	8	...	...	...	...	...	...	...	...	...	...	...	1 per gun	25 per cent.
2	...	...	...	...	...	...	...	...	8	...	...	...	...	1 ,, ,,	
3	...	...	...	...	...	...	...	...	8	...	...	...	...	1 ,, ,,	
4	6	6	...	...	...	...	...	...	6	...	...	2	...		
5	1	1	1	...	...	...	1	...	...	...	...	...	...	1 per section of defence.	
6	...	...	...	...	...	1	...	...	...	...	...	...	...		
7	...	...	...	1	1	...	...	...	...	...	...	...	...		
8	...	...	...	...	...	...	...	1	...	...	...	...	...		
9	...	...	...	...	...	...	...	...	1	...	...	...	...	1 per section of defence.	
10	...	...	...	...	...	...	...	...	...	...	1	...	...		
11	...	...	...	...	...	...	...	...	...	1	...	...	...		
12	...	...	...	...	...	...	...	...	...	...	..	1	1		

Table of Component and Spare Parts, Appurtenances, and

	Designation.	Details.	
	COMPONENT	AND SPARE PARTS—*continued.*	
Screws	plate elevating carriage garrison disappearing Mk. I, fixing	Steel...	1
	,, preserving...	,,	2
	Sockets, tangent sight, left	Bronze, with set screw...	3
	,, ,, right	,, ,, ,,	4
	Spindles, worm	Steel, with worm, keep pin, 4 washers, nut, and keep pin (and lever 9·2-in. C Mark I) (with worm and 4 washers only 9·2-in. IX)	5
Springs	catch, cam lever	Steel, spiral	6
	,, cam lever down...	,, ,,	7
	,, cam lever up	,, flat (spiral 6-in. V.)	8
	clip, cam lever ...	,, spiral	9
	clip, carrier ring	,, flat (spiral 9·2-in. IX)	10
	extractors, locks, electric B, C, C¹ and percussion D	,, spiral...	11
	,, locks, 12-in. and 9·2-in. wire guns	,, ,, electric and percussion	12
	guide bolt, lock percussion, ejecting	,, ,,	13
	guide bolt, lock percussion, twisting	,, ,,	14
	,, bolt, lock percussion ...	,, ,,	15
	,, bolt, locks, electric B, C. C¹ and percussion D	,, ,,	16
	guide for lock	,, ,,	17
	hammer	,, flat	18
	lanyard-bolt	,, spiral	19
	latch, carrier ring	,, ,,	20
	main. lock percussion, 12-in. and 9·2-in. wire guns	,, volute	21
	lever, retaining, carrier, closed	,, spiral (flat 9·2-in. I)	22
	lever, retaining, carrier, open	,, flat, with fixing screw	23
	pin directing pawl, ratchet lever	,, spiral	24
	safety plunger ...	,, ,,	25
	sleeve, actuating lever, locks, 12-inch and 9·2-inch wire guns	,, ,, electric and percussion...	26
	stop catch. actuating lever locks, 12-inch and 9·2-inch wire guns	,, ,, ,, ,, ,,	27
	stop, breech screw	,, ,,	28
	,, lever	,, flat ...	29
	,, pin ...	,, spiral	30
	,, retaining carrier, open ...	,, ,,	31
	striker	,, ,,	32
	,, lock percussion D	,, ,,	33
	trigger	,, flat (spiral 9·2-inch IX)...	34
	,, lock percussion D	,, spiral	35
	vent axial...	,, ,,	36

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* See footnote * page 340.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in. Marks IV, VIB, and U.C. Mark IVA.	9·2-in. Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in. Mark IX.	8-in. Marks VII and VIIA.	6-in. Marks IV and VI.	6-in. Mark V.	5-in. Marks IV and V.	4-in. Marks V and VI.	In R.A. Charge	In A.O. Charge.*
1	...	...	...	S	...	...	...	...	...	...	...	...	...	2 per 2 guns	25 per cent.
2	...	...	...	S	...	...	...	...	...	...	...	...	...		
3	1	1	...	...	...	...	...	...	...	...	...	...	...		
4	1	1	...	...	...	...	...	...	...	...	...	...	...		
5	...	...	S	...	1	...	S	S	...	...	...	...	...	1 per section of defence.	
6	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per gun	25 per cent.
7	S	S	S	S	S	S	S	...	...	S	S	...	...	2 per gun	
8	S	S	S	S	S	S	S	...	...	...	S	...	...	2 per gun	
9	...	...	...	...	...	...	...	...	...	S	...	...	...	4 per gun	
10	S	S	S	...	...	S	S	S	...	S	S	S	S	2 per gun	
11	S	S	S	S	S	S	S	...	...	...	...	...	...	2 per gun	
12	...	...	...	...	...	...	...	S	...	...	...	...	...	2 per gun	
13	...	...	...	...	...	...	...	...	...	S	...	...	...	2 per gun	
14	...	...	...	...	...	...	...	...	...	S	...	...	...	2 per 2 guns	
15	...	...	...	...	...	...	...	...	S	...	S	S	S	2 per 2guns	
16	S	S	S	S	S	S	S	...	...	...	...	...	...	2 per gun	
17	...	...	...	...	...	...	...	...	...	S	S	S	S	2 per gun	
18	...	...	...	...	...	...	...	...	S	S	S	S	S	2 per gun	
19	...	...	...	...	...	...	...	...	S	S	S	S	S	2 per gun	
20	...	...	S	...	..	S	S	...	...	...	...	...	...	2 per gun	
21	...	...	...	...	...	...	S	...	...	...	...	...	..	1 per gun	
22	...	...	...	S	S	...	...	...	S	...	S	...	...	2 per gun	25 per cent.
23	...	...	...	...	...	...	...	...	S	...	S	...	...	2 per gun	
24	S	S	S	S	S	S	S	...	...	...	...	...	...	2 per gun	
25	...	...	...	...	...	...	...	S	...	...	...	...	...	2 per 2 guns	
26	...	...	...	...	...	...	...	S	...	...	...	...	...	2 per 2 guns	
27	...	...	...	...	...	...	...	S	...	...	...	...	...	2 per 2 guns	
28	...	...	...	S	S	...	...	...	S	...	...	...	...	2 per gun	
29	...	...	...	...	...	...	...	...	...	...	S	...	...	2 per gun	
30	...	...	...	...	...	...	...	...	S	S	...	S	S	2 per gun	
31	...	...	...	S	S	...	...	...	...	...	...	...	...	2 per gun	
32	...	...	...	...	...	...	...	...	S	S	S	S	S	4 per gun	
33	S	S	S	S	S	S	S	...	...	...	...	...	...	2 per gun	
34	...	...	...	...	...	...	...	*b*S	S	S	S	S	S	2 per gun *b*2 per 2 guns	
35	S	S	S	S	S	S	S	...	...	...	...	...	...	6 per gun	
36	S	S	S	S	S	S	S	*b*S	...	S	...	...	...	2 per gun *b*2 per 2 guns	

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Table of Component and Spare Parts, Appurtenances, and

Designation.		Details.	
	COMPONENT	AND SPARE PARTS—*continued.*	
Strikers	...	Steel ...	1
	lock, percussion D	" with spindle and keep pin	2
	locks, percussion, 12-inch and 9·2-inch wire guns	" in three parts, with keep pin	3
Studs	catch	" with fixing screw, retaining carrier closed	4
	"	" apparatus withdrawing breech screw (except 12-inch IA)	5
	" No. 1	" retaining carrier, closed	6
	" " 2	" " " open	7
	elevating	"	8
	steadying	" apparatus withdrawing breech screw	9
	stop, breech screw, closed	"	10
	stop, breech screw, open	"	11
Triggers	...	" with axis pin	12
	lock, percussion D	" " "	13
Trigger-guards		" " fixing screw	14
Vents, axial		"	15
		" with spiral spring, nut, and washer	16
		" washer	17
	APPURTE	NANCES AND IMPLEMENTS.	
Bits, vent	36-inch	Steel ...	18
	23 "	"	19
Bolts, eye	breech screw	"	20
	hinge bolt, carrier ring	"	21
	worm, carrier ring	"	22
Clamps	tangent sight	Bronze	23
	tangent sight, automatic, A	"	24
	B	"	25
	C	"	26
Extractors, tube	P	Steel ...	27
	P special	"	28
Levers	extractor	"	29
	lengthening cam lever	" (with lanyard 6-inch IV and VI) (wrought-iron 6-inch V)	30
Tommies		Copper	31
Trays, loading	...	Steel and bronze, with lengthening piece; (bronze without lengthening piece for 9·2 in. Mark IX.) ...	32
	...	Steel, cartridge and projectile.	33
Pivots, elevating		...	34
Rimers, vent, axial,	short	Bronze	35
	long ¶	"	36
Rods, vent	36-inch	Steel ...	37
	20 "	"	38
Sights, B.L., fore	...	...	39
	left	...	40
	right	...	41

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Malta
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* *See* footnote * page 340. † 1 per work.

¶ Will only be issued for guns using cordite vent primers.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in. C. Mark I.	9·2-in. Marks IV, VIB, and U.C. Mark IVA.	9·2-in. Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in. Mark IX.	8-in., Marks VII and VIIA.	6-in. Marks IV and VI.	6-in. Mark V.	5-in. Marks IV and V.	4-in. Marks V and VI.	In R.A. Charge	In A.O. Charge.*
1	...	...	...	...	...	...	...	...	S	S	S	S	S	4 per gun	
2	S	S	S	S	S	S	S	...	...	...	...	...	...	1 per gun	
3	...	...	...	...	...	...	...	S	...	...	...	...	...	1 per gun	
4	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
5	1	1	...	...	...	...	...	...	...	...	...	...	...	1 per section of defence.	
6	...	...	...	1	1	...	...	...	...	...	...	...	...		
7	...	...	...	1	1	...	...	...	...	...	...	...	...		
8	S	S	...	...	...	...	...	...	...	...	...	...	...		
9	1	1	...	...	...	...	...	...	...	...	...	...	...		
10	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
11	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
12	...	...	...	...	...	...	...	...	S	S	S	S	S	2 per gun	25 per cent.
13	S	S	S	S	S	S	S	...	...	...	...	...	...	1 per 2 guns	
14	...	...	...	...	...	...	...	...	S	S	S	S	S	2 per gun	
15	...	...	...	...	...	...	...	...	...	...	...	1	1	1 per gun	
16	1	1	1	1	1	1	1	1	...	1	...	...	...	1 per gun	
17	...	...	...	...	...	...	...	...	1	...	1	...	...	2 per gun	
18	†	†	†	†	†	†	†	†	†	...	...	...	...	1 per work, as required.	
19	...	...	...	...	...	...	...	...	...	†	†	†	†		
20	†	†	†	...	...	...	...	...	...	...	...	...	...	...	
21	...	...	...	...	...	...	...	†	...	...	...	...	...	...	
22	...	...	...	...	...	...	...	†	...	...	...	...	...	...	
23	...	...	...	...	...	...	...	...	2	...	2	...	...	1 per 2 guns	25 per cent.
24	...	...	...	...	...	...	...	...	...	...	...	1	1	1 per section of defence.	
25	...	...	...	...	...	...	...	...	...	2	...	...	...		25 per cent.
26	2	2	2	2	2	2	2	...	...	...	...	...	...		
27	...	...	...	...	...	...	...	...	1	1	1	1	1		
28	...	...	...	...	...	...	...	...	*a*	*a*	*a*	*a*	*a*	*a* 1 per 2 guns	
29	*b*	*b*	*b*	*b*	*b*	*b*	*b*	1	...	...	...	...	...	*b* 1 to 10 guns or less.	
30	...	...	...	...	...	...	...	...	*c* 1	1	1	...	...	*c* 1 per 2 guns	
31	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
32	1§	1§	1	1	1	1	1	1	1	...	...	...	...	1 per 2 guns	25 per cent.
33	...	...	...	...	...	...	...	...	...	1	1	...	...	1 per 2 guns	
34	...	...	...	...	...	...	...	...	...	...	...	...	...	‡	...
35	1	1	1	1	1	1	1	1	1	1	1	1	1	1 per gun.	25 per cent.
36	1	1	1	1	1	1	1	1	1	...	...	...	...	2 per 2 guns	25 per cent.
37	1	1	1	1	1	1	1	†	1	...	...	...	...	...	
38	...	...	...	...	...	...	...	...	...	†	1	1	1	...	
39	...	...	...	...	...	...	...	...	...	...	...	1	1	1 per section of defence.	
40	1	1	1	1	1	1	1	...	1	1	1	...	...		
41	1	1	1	1	1	1	1	...	1	1	1	...	...		

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3
9500
9618

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Malta
1083

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1075

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‡ Pivots, elevating, are issued in the proportion of 1 to 5 of each nature of pivot.

§ For use in loading the guns by hand rammer in the event of a breakdown in the hydraulic gear.

Table of Component and Spare Parts, Appurtenances, and

Designation.			Details.	
			APPURTENANCES AND IMPLEMENTS—*continued.*	
Sights, B.L.	tangent	... ...	... ...	1
		left ...	... ...	2
		right ...	... ...	3
	telescopic		... ...	4
Wrenches	A		Steel, end plate	5
	bracket, elevating...		,, ...	6
	breech	action ...	,, ...	7
		mechanism	,, ...	8
	bracket, elevating band, Mark I		,, for fixing screws	9
	end plate		,, ...	10
	firing mechanism, E		,, ...	11
	,, ,, H		,, ...	12
	nut, vent		,, ...	13
	pivots	brackets, elevating band, Mark I	,, ...	14
		elevating band, Mark II	,, ...	15
		elevating ...	... ...	16
	stud and screw, No. 1		,, in six parts (A, B, C, D, E, F) and tommy ...	17

* *See* footnote * page 340.

Implements for B.L. Land Service Guns—*continued.*

	Ordnance, B.L.													Proportion of Spare.	
	12-in., Marks I. and IA.	12-in., Marks VI and VII.	10-in.	9·2-in., U.C. Mark I.	9·2-in., C. Mark I.	9·2-in., Marks IV, VIB, and U.C. Mark IVA.	9·2-in. Marks VI, VIA, VIC, and C. Mk. IVA.	9·2-in. Mark IX.	8-in., Marks VII and VIIA.	6-in., Marks IV and VI.	6-in., Mark V.	5-in., Marks IV and V	4-in. Marks V and VI.	In R.A. Charge.	In A.O. Charge.*
1	...	...	...	...	...	...	...	...	...	...	...	1	1	1 per section of defence.	
2	1	1	1	1	1	1	1	...	1	1	1	...	...		
3	1	1	1	1	1	1	1	...	1	1	1	...	...		
4	...	...	...	...	...	...	...	...	...	...	...	1	1		
5	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...
7	...	...	...	...	...	...	...	...	1	†	1	1	1	1 per section of defence.	...
8	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
11	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
13	1	1	1	1	1	1	1	1	1	†	...	...	...	1 per section of defence.	...
14	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
16	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
17	*b*	*b*	*b*	*b*	*b*	*b*	*b*	1	...	...	...	...	...	...	...

† 1 per work. *b* 1 to 10 guns or less.

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Gen. No.
9464

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9464

TABLE OF COMPONENT AND SPARE PARTS, APPURTENANCES, AND IMPLEMENTS FOR Q.F. LAND SERVICE GUNS.

NOTE.—The letter S denotes the guns to which the items are issued spare. The figures show the components of the guns and their number.

Designation.	Details.	Ordnance Q.F.				Proportion of Spare.	
		6-inch B.	4·7-inch.	4·7-inch B.	12-pr., 12-cwt A.	In R.A. Charge.	In A.O. Charge.*
Brackets, supporting contact	Bronze, with securing pin in 2 parts with keep pin...	...	...	1	...	... ...	
	Steel, with 2 fixing screws for spring contact...	...	...	...	1	... ...	
Bushes firing hole	Steel	S	S	S	S	1 to each breech screw component and spare	25 per cent.
Bushes sliding block	Bronze, traversing breech screw	S	...	S	S	1 per 2 guns ...	
Carrier	Bronze, with flat spring and fixing screw, bearing washer and lubricating screw; hinge bolt, washer, lubricating screw, and keep pin, sliding block, bush, and axis pin for link, with fixing screw and lubricating screw; breech mechanism lever with nut, keep pin, and lubricating screw, link, actuating breech screw with nut, keep pin, and lubricating screw; safety stop in 2 parts, with fixing screw and check screw catch retaining breech screw, open, with spiral spring, bracket with 4 fixing screws, and guide screw; and eye supporting cable	1	...	1	1	1 per section of defence.	
	Steel, with washer, hinge bolt, washer, and keep pin; catch retaining carrier, open, with axis pin, socket, set screw, and spiral spring; and set screw for striker retaining nut	...	1	...	...		
Contacts, electric firing lever ...	Aluminium bronze, consisting of contact, insulating bush, washer, contact bush box, securing nut, and washer; buffer washer; lead protecting tube, armoured cable with 2 unions, 2 washers, and contact retaining nut	...	S	...	...	1 per 2 guns ...	25 per cent.

Extractors	Steel, with securing nut, lever, and keep pin; actuating bolt with axis pin, washer, keep pin, spiral spring, and cover for spring, with 2 fixing screws and plug	1	...	...	...	1 per section of defence	...
	Steel, with lever and fixing screw, buffer, spiral spring and cover, actuating plate with axis pin, washer and keep pin and filling piece with 2 fixing screws (1·1 and ·85-inch), and lubricating screw	...	1	1	...		
	Steel, with lever, bush, and fixing screw, buffer, spiral spring and cover, actuating plate, with axis pin, washer and keep pin, and retaining nut	...	...	...	1		
Guards, electric firing lever ...	Bronze, with clamping screw, and chain; flat spring with axis pin; contact protecting cap with axis pin; shield steadying bracket with 2 fixing screws and steadying screw	...	1	...	...		
Guide, shot, Mark III	Manganese bronze, with axis pin, washer, keep pin, and stop screw ...	1	...	...	...		
Levers breech mechanism ...	Steel	S	...	S	S		
Levers cam...	Steel, with hinge bolt, washer, and keep pin	...	S	...	...		
Levers electric firing	Steel, with axis pin, contact, insulating bush, washer, contact bush box, securing nut and washer; buffer washer; lead protecting tube, armoured cable, with 2 unions, 2 washers, and contact retaining nut	...	1	...	...		
Links, cam, lever	Steel, with axis pin	...	S	...	...	1 per 2 guns ...	25 per cent.
Needles	Steel, striker, electric and percussion, with 2 nuts	S	...	S	S	1 per gun ..	
Needles percussion, striker	Steel	...	1	...	...		
Pins, keep, split, axis pin, shot guide ...	Steel, split, length 2·3 inches, also breech mechanism lever	S	...	...	...	2 per 2 guns ...	
Pins, keep, split, hinge, bolt, carrier ...	Steel, bulb head, length 3·9 inches	S	...	...	...	1 per 2 guns ...	
Pins, keep, split, lever, extractor	Steel, taper, length 1·6 inches	S	...	...	...	2 per 2 guns ...	
Pins, keep, split, 2·3-in. × ·192 in. ...	Axis, pin, shot guide, and nut breech mechanism lever	S	...	...	...	2 per 2 guns ...	
Pins, keep, split, 1·9-in. × ·192-in. ...	Steel, hinge bolt carrier, Q.F., 4·7-inch, 4·7-inch A and B; nut breech mechanism lever, Q.F., 4·7-inch B, and 4-inch Mark III, and link actuating breech screw, Q.F. 6-inch B, and Q.F.C, 6-inch	S	S	S	...	2 per 2 guns ...	
Pins, keep, split, 1-in. × ·128-in. ...	Steel, extractor, 4·7-inch, 4·7-inch A and B, and 4-inch Mark III, 12-pr., 12-cwt., 12 cwt. A, and 8 cwt.; axis pin, bolt, actuating extractor, Q.F., 6-inch, 6-inch B, and Q.F.C. 6-inch; and link actuating breech screw, Q.F., 12-pr., 12-cwt., 12-cwt. A and 8 cwt.	S	S	S	S	2 per 2 guns ...	
Pins, keep, split, 1·5-in. × ·148-in. ...	Steel, link actuating breech screw, Q.F., 4·7-inch B, and 4-inch Mark III; and nut breech mechanism lever, Q.F., 12-pr., 12 cwt., 12-cwt. A, and 8 cwt.	...	...	S	S	2 per 2 guns ...	
Pins, keep, split, 1·7-in. × ·148-in. ...	Steel, hinge bolt, carrier, 12-pr., 12-cwt., 12-cwt. A and 8 cwt.	...	...	...	S	2 per 2 guns ...	
Pins, keep, contact	Steel, bulb head	...	S	...	...	1 per 2 guns ...	

* The percentage of spare held in Army Ordnance Charge is calculated on the total quantity of spare per district in R.A. Charge, and is in addition thereto.

Table of Component and Spare Parts, Appurtenances, and Implements for Q.F. Land Service Guns—*continued.*

Designation.	Details.	Ordnance Q.F. 6-inch B.	Ordnance Q.F. 4·7-inch.	Ordnance Q.F. 4·7-inch B.	Ordnance Q.F. 12-pr., 12-cwt. A.	Proportion of Spare. In R.A. Charge.	Proportion of Spare. In A.O. Charge. ¶
Screws, breech	Steel, with fixing screws, lubricating screw, and bush firing hole ...	1	...	1	1	1 per section of defence	...
	Steel, with fixing screw; end plate with 4 fixing screws; cam lever with hinge bolt, washer and keep pin; link cam lever with axis pin; bracket supporting link with 2 fixing screws; catch cam lever with spiral spring and stop screw; trigger sear in 2 parts with fixing screw and spiral spring; and bush firing hole	...	1	...	...		
Screws, fixing, breech screw ...	Steel	S	S	S	S	1 per 2 guns...	25 per cent.
Screws, fixing, trigger, sear ...	,, ...	...	S	...	...		
Screws, preserving eyebolt ...	Bronze	...	1	1	...	... ...	...
Screws, set, striker retaining nut	Steel	...	S	...	...	1 per 2 guns ...	...
Springs, catch, breech, screw, open	Steel, spiral	S	S	S	...	2 per 2 guns ...	25 per cent.
Springs, catch, retaining, 4·7 inch and 12-pr. ...	,, ,, cam, lever, 4·7-inch, and breech screw, open, 12-pr., 12-cwt., 12-cwt. A, and 8-cwt.	...	S	...	S	2 per 2 guns ...	
Springs, extractor	Steel, spiral	S	S	S	S	2 per 2 guns ...	
Springs, main	,, ,, ...	S	S	S	S	1 per gun ...	
Springs, trigger sear	,, ,, ...	...	S	...	...	2 per 2 guns ...	
Stops, safety	Steel, in 2 parts, with fixing screw and check screw	S	...	S	S	1 per 2 guns ...	
Strikers, electric and percussion...	Steel, with cocking handle, needle, 2 nuts for needle, insulating bush (in 4 parts for 6-inch B; 3 parts for 4·7-inch B, and 2 parts for 12-pr., 12 cwt. A guns), steel sheath, main spring; 3 leather washers; nut for sheath, with steel head, retaining nut and Mark III trigger in 2 parts with spring, filling washer and cap, or Mark IV trigger in 2 parts, with spring, keep pin and cap	1	...	1	1	1 per gun ...	

Strikers, electric and percussion...	Consisting of steel sheath in 2 parts with set screw, retaining nut; needle, insulating bush, protecting tube, and washer; tube retaining nut with set screw; angle piece for lead with 2 washers and cap; lead protecting cover breech screw, contact with insulating bush, 2 washers, box, cover, and keep pin; and main spring	...	1	...	...	1 per gun ...	...
Triggers	Steel, with axis pin, lanyard, trigger, bolt with bracket and 2 fixing screws	...	1	...	...	1 per section of defence	...
	Steel, in 2 parts with spring, keep pin, and cap	S	...	S	S	1 per gun ...	25 per cent.
57 / Gib. / 7502 **Washers** buffer, electric firing lever	Indiarubber	...	S	...	...	2 per gun	...
Washers leather, electric and percussion striker	3 to a set, large, medium, and small	S	...	S	S	2 sets per gun	25 per cent.

APPURTENANCES AND IMPLEMENTS.

Bolt, eye, slinging	Steel	...	1	1	...	1 per gun ...	...
Cans, lubricating, No. 10	Tin, for Q.F. guns	1	1	1	1		
Clamps, tangent sight, automatic, Q.F., 4·7-inch	Bronze	...	1	1*	...	1 per 2 guns ...	25 per cent.
57 / Malta / 1478 **Drifts**	,, ...	§	§	§	§	... ...	...
Extractors, cartridge, hand, Q.F. large	Steel	1	...	...	...	1 per work ...	...
Extractors, cartridge, hand, Q.F. small	,, ...	...	1	1	1		
Hammers, lead... ...	Handled	§	§	§	§	... ...	...
Levers, lengthening, cam lever...	Wrought-iron	...	1	...	...	... ...	...
Punch	Steel	§	§	§	§	... ...	...
Rimers, vent, axial, short	Bronze	1	1	1	1	... ...	...
Sights, Q.F. fore, 4·7-inch	Bronze, with socket	...	1	1*	...	1 per section of defence	...
Sights, Q.F. tangent, 4·7-inch, cordite, powder	Steel, with range strips (2 to a set), and scale plate	...	1	1*	...		
Wrenches A	Steel	...	1	...	...		
Wrenches B	,, ...	...	1	...	...		
Wrenches bush firing hole ...	,, ...	§	§	§	§		
Wrenches C	,, bracket supporting contact	...	...	§	...	... ...	...
Wrenches D	,, for nuts of axis pins of breech mechanism, and all large screws...	§	...	§	§	... ...	...
Wrenches E	, for extractor and all small screws	§	...	§ §	§	... ...	...

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* When on 4·7-inch Mark I* carriage.
§ 1 per work.
¶ See footnote * page 361.

TABLE OF COMPONENT AND SPARE PARTS, APPURTENANCES,

NOTE.—The letter S denotes the guns to which the items are issued

Designation.	Details.	12·5-in., Mark I.	12·5-in., Mark II.	12-in., 35 tons.	12-in., 25 tons.	
COMPONENT	AND SPARE PARTS.					
Bolts cascable, elevating	Iron, with washer and keep pin	...	...	...	...	1
Bolts eye, trunnion	Iron, for guns on counterweight carriage, Mark II	...	...	...	...	2
Boxes, slide	Steel, in 3 parts...	...	...	...	...	3
Brackets arc, graduated	Bronze with 4 fixing screws, bolt, washer, and keep pin	...	...	...	...	4
Brackets fore sight	Bronze with 4 fixing screws...	...	...	...	...	5
Brackets fore sight	,, ,, 2 ,, ,, ...	...	...	...	...	6
Brackets fore sight left ...	,, ,, 2 ,, ,, ...	...	...	...	...	7
Brackets fore sight right ...	,, ,, 2 ,, ,, ...	...	...	...	...	8
Brackets hydro-clinometer ...	,, ,, 3 fixing screws, for 12·5-in., Mark I guns, and 2 for 10-in., Mark II guns, on small port carriages	1	...	...	...	9
Brackets tangent sight	Bronze with 4 fixing screws	...	...	...	...	10
Cascables, slinging 12·5-in., Mark II, and 10·4-in. guns	Removable	...	S	...	...	11
Collars, cascable, elevating... ...	Iron, when mounted on counterweight carriage Mark II, 2 to a set, right and left	...	...	...	...	12
Contacts, electric	Aluminium, with insulating bush, case, 2 washers, and nut, cylinder for contact, and spiral spring, bracket, insulating plate and 2 fixing screws with insulating bushes, socket for lead with lead and cap	...	...	...	...	13
Covers, vent, steel, cone A§ ... B‖ ...	Bronze, in 2 parts, with 4 fixing screws, for guns with steel cone vents	...	...	...	...	14
Derricks, loading, muzzle†...	Bronze, with band with 2 hinge screws, 2 fixing screws with loops and 2 without	1	...	...	...	15
	Bronze, with band with 2 hinge screws with loops and 4 fixing screws	...	...	1	...	16
	Bronze, with band, with 2 hinge screws, and 4 fixing screws	...	...	...	...	17
Discs, pad, obturating adjusting	Steel	...	...	...	...	18
Discs, pad, obturating protecting	Tin, 2 to a set, front and rear	...	...	...	...	19
Holders tube	Steel, with extractor and spring	...	3	...	...	20
Holders vent, axial	Steel, with cam lever, hinge bolt, set screw and link	...	...	...	...	21
Lanyard guides, wrought-iron guns	... ...	1	...	1	1	22
Levers, cam	Steel, with hinge bolt and set screw ...	...	...	...	...	23

¶ The percentage of spare held in Army Ordnance Charge is calculated on the total quantity of spare per district in R.A. Charge, and is in addition thereto.

* When mounted on wrought iron sliding garrison carriage.

† Muzzle derricks are not used with guns mounted behind shields or where the slide is fitted with fixed loading stages.

AND IMPLEMENTS FOR R.M.L. LAND SERVICE ORDNANCE,

spare. The figures show the components of the guns and their number.

	Ordnance, R.M.L.																	Proportion of Spare.	
	Guns.												Howitzers.						
	11-in.	10·4-in.	10-in.	9-in.	7-in., 7 tons.	7-in., 6½ tons.	6·6-in.	80-pr.	64-pr., 71 cwt.	64-pr., 64 cwt.	64-pr., 58 cwt.	40-pr.	25-pr.	8-in., 70 cwt.	8-in., 46 cwt.	6·6-in.	6·3-in.	In R.A. Charge.	In A.O. Charge.¶
1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	... ...	... ...
2	...	...	...	...	2	...	...	...	...	...	2	...	...	...	...	...	...	1 per section of defence	... ...
3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		... ...
4	...	...	...	...	...	*1	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
5	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
6	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	... ...	... ...
7	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	... ...	... ...
8	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	... ...	... ...
9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
10	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
11	...	§	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per work ...	... ...
12	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
13	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per 2 guns ...	25 per cent.
14	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
15	...	...	‡1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
16	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
17	...	...	...	‡1	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
18	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per 2 guns ...	25 per cent.
19	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per gun ...	
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
21	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per section of defence	... ...
22	1	...	1	1	1	1	...	1	1	1	1	...	...	...	...	...	...	... ...	... ...
23	...	§	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per section of defence	... ...

‡ Except H. A. guns.

§ For R.M.L. 10-in., Mark $\frac{\text{III}}{\text{9-in., I}}$, 9-in., Marks $\frac{\text{VI A}}{\text{I}}$ and $\frac{\text{VI C}}{\text{I}}$ guns.

‖ For R.M.L. 10-in., Mark $\frac{\text{III}}{\text{9-in., II, 9-in., III}}$, 9-in., Mark $\frac{\text{VI A}}{\text{II to V}}$ and $\frac{\text{VI B}}{\text{V}}$ guns.

Table of Component and Spare Parts, Appurtenances, and

Designation.	Details.	12·5-in., Mark I.	12·5-in., Mark II.	12-in., 35 tons.	12-in., 25 tons.	
COMPONENT	AND SPARE PARTS—*continued.*					
Locks, electric	Steel, with contact, terminal with insulating bushes and nut, guide bolt, spiral spring, earth terminal with nut, and extractor, in 2 parts, with spiral spring	...	...	...	...	1
Pads, obturating	Asbestos, canvas-covered	...	...	...	...	2
Plates, elevating, lower	Bronze, with "A" pivot, keep pin, and fixing screws (or with "I" pivot for guns on converted small port carriage)	1	1	1	...	3
Plates, elevating, upper		1	1	1	...	4
Plates, elevating, Mark II		1*	1*	...	...	5
Plates, elevating	Bronze, with "B" pivot, keep pin, and fixing screws	...	...	...	2†	6
Plates, elevating	Bronze, with pivot, keep pin, and fixing screws, right	...	...	...	...	7
Plates, elevating	Bronze, with "C" pivot, keep pin, and fixing screws	...	...	...	...	8
Plates, elevating	Wrought iron, with washer, retaining screw and fixing screws	...	...	...	...	9
Plates, elevating, counterweight carriage, Mark II	Bronze, with bolt, keep pin, washer, and fixing screws	...	...	...	...	10
Plates, overbank carriage, breech	Bronze, with bolt, keep pin, washer, and fixing screws	...	...	...	...	11
Plates, overbank carriage, muzzle		...	...	...	...	12
Plates, index	Bronze, with scale plate and reader, all with fixing screws	1	1	1	1	13
Plates, trunnion, left	Iron	...	...	...	...	14
Plates, trunnion, right	,,	...	...	...	...	15
Pins, keep, cascable, elevating bolt, 25-pr. to 9-pr.	Steel, flat (identical with "pins keep, elevating bolt" for B.L. 15 and 12-pr., and R.B.L. 12 and 9-pr.	...	...	...	...	16
Pins, keep, pivot, plate elevating	Iron	S	S	S	S	17
Pins, keep, plate, elevating, counterweight, carriage, Mark II	,,	...	...	...	...	18
Pins, keep, plate, elevating, overbank carriage	Iron for bolt	...	...	...	...	19
Pivots, elevating	Steel	S	S	S	S	20
Screws, preserving, bracket, arc graduated	...	...	...	...	...	21
Screws, preserving, bracket, foresight	...	...	...	...	...	22
Screws, preserving, eye bolt, trunnion	...	...	...	...	...	23
Screws, preserving, lanyard guide	...	1	...	1	1	24
Screws, preserving, pin, friction tube	...	2	...	2	2	25
Screws, preserving, plate, elevating	...	12	12	8	8	26
Screws, preserving, plate, elevating, counterweight, carriage	...	...	...	...	...	27
Screws, preserving, plate, elevating, overbank, carriage	...	...	...	...	...	28
Screws, preserving, plate, trunnion	...	...	...	...	...	29

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* When mounted for small port only.

† 1 left and 1 right. ‡ Except H.A. guns.

§ When mounted on Mark II counterweight carriage only.

¶ See footnote ¶ page 364.

Implements for R.M.L. Land Service Ordnance—*continued.*

	Ordnance, R.M.L.																	Proportion of Spare.	
	Guns.													Howitzers.					
	11-in.	10·4-in.	10-in.	9-in.	7-in., 7 tons.	7-in., 6½ tons.	6·6-in.	80-pr.	64-pr., 71 cwt.	64-pr., 64 cwt.	64-pr., 58 cwt.	40-pr.	25-pr.	8-in., 70 cwt.	8-in., 46 cwt.	6·6-in.	6·3-in.	In R.A. Charge.	In A.O. Charge.¶
1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per 2 guns ...	25 per cent.
2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per gun ...	25 per cent.
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
6	2†	...	2‡†	2‡†	2†	2†	...	...	...	1	...	1	...	1	1	1	1	... ...	... ...
7	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
8	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	... ...	... ...
9	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	... ...	... ...
10	...	...	...	2§	1§	...	...	...	...	...	1§	...	...	...	...	...	...	... ...	... ...
11	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	... ...	... ...
12	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	... ...	... ...
13	1	...	1‡	1‡	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
14	...	...	...	1§	1§	...	1	...	...	...	1§	...	...	...	...	...	...	... ...	... ...
15	...	...	...	1§	1§	...	1	...	...	...	1§	...	...	...	...	...	...	... ...	... ...
16	...	...	...	...	...	...	...	...	...	...	...	...	S	...	...	...	...	2 per 2 guns ...	25 per cent.
17	S	S	S‡	S‡	S	S	...	...	...	S	...	S	...	S	S	S	S	2 per 2 guns ...	25 per cent.
18	...	...	...	S	S	...	...	...	...	...	S	...	...	...	...	...	...	1 per gun ...	
19	...	...	...	...	...	...	...	...	...	...	...	S	S	...	...	...	...	2 per 2 guns	
20	S	S	S‡	S‡	S	S	S	S	...	S	S	S	S	S	S	S	S	1 of each nature per section of defence	... ...
21	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
22	...	...	...	...	...	...	...	4	4	...	2	...	...	...	...	...	...	... ...	... ...
23	...	...	...	...	2	...	...	...	...	...	2	...	...	...	...	...	...	... ...	... ...
24	1	...	1	1	1	1	...	1	1	1	1	...	...	...	...	...	...	... ...	... ...
25	2	...	2	2	2	2	...	2	2	2	2	...	...	...	...	...	...	... ...	... ...
26	8	4	8	8	8	8	8	...	...	4	...	4	3	4	3	4	4	... ...	... ...
27	...	...	...	...	...	...	...	...	...	...	6	...	...	...	...	...	...	... ...	... ...
28	...	...	...	...	...	...	...	...	...	...	...	8	8	...	...	...	...	... ...	... ...
29	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	... ...	... ...

Table of Component and Spare Parts, Appurtenances, and

Designation.	Details.	12·5-in., Mark I.	12·5-in., Mark II.	12-in., 35 tons.	12-in., 25 tons.	
COMPONENT	AND SPARE PARTS—*continued.*					
Screws, preserving, shutter frame	... ...	...	6	...	...	1
Screws, preserving, sight brackets	... ...	...	...	...	...	2
Screws, preserving, stud, trunnion	... ...	...	...	...	...	3
Screws, fixing, plate trunnion, left	... ...	...	...	...	...	4
Screws, fixing, plate trunnion, right	... ...	...	...	...	...	5
Shutters	Consisting of frame with 6 fixing screws, spring retaining wires with 2 fixing screws, guide pulley with axis pin; shutter with hinge bolt and 2 fixing screws, 2 latches with two studs, and 2 spiral springs, handle with 2 pivot pins, and 2 actuating links for latches; wheel lanyard guide with pulley, axis pin and hinge bolt with flat spring, fixing screw, chain and eyebolt; socket supporting vent with 4 fixing screws, guide for tube-holder, 1 electric and 1 friction shutter plug.	...	1	...	...	6
Sockets, vent axial	Bronze, with 3 fixing screws	...	...	...	...	7
Springs, latch	Steel, spiral for shutter	...	S	...	...	8
Studs, trunnion	Iron	2†	2	...	...	9
Vents, axial	Steel, with washer, nut and double key ...	...	1	...	...	10
	Steel	...	...	...	...	11
Wheel, lanyard guide	With pulley, axis pin, and hinge bolt with flat spring, fixing screw, chain and eye bolt	...	S	...	...	12
Washers, vent	Copper	...	S	...	...	13
APPURTENANCES	AND IMPLEMENTS.					
Bits, vent, 36-inch	Steel	...	**	...	...	14
Bits, vent, 23 „	„	...	...	...	...	15
Clamps, tangent sight, A	Bronze	2	2	2	...	16
Clamps, tangent sight, B	„	...	...	...	...	17
Clamps, tangent sight, C	„	...	...	...	2	18
Clamps, tangent sight, D	„	...	...	...	...	19
Drifts, vent, 36-in.	Steel	...	1	...	...	20
Extractors, tube, V.M. Mark II.	„	...	1	...	...	21
Extractors, tube, F special ...	„	...	§	...	...	22
Extractors, tube, P	„	...	...	...	...	23
Extractors, tube, P special ...	„	...	...	...	...	24
Rimers, vent axial, short	Bronze	...	1	...	...	25
Rods, vent, 36-inch	Steel	...	1	...	...	26
Rods, vent, 20 „	„	...	...	...	...	27
Sights, cross-bar, fore	Steel, with socket	...	...	..	...	28
Sights, cross-bar, tangent ...	Steel	...	...	...	...	29
Sights, fore, B	Bronze, with socket, hog-back ...	...	...	...	...	30
Sights, fore, D	„ „ „ „	...	...	...	...	31
Sights, fore, G	„ „ „ acorn	...	...	...	...	32
Sights, fore, H	„ „ „ „	...	...	...	...	33
Sights, fore, J	„ „ „ „	...	...	...	...	34
Sights, fore, K	„ „ „ „	...	...	...	...	35
Sights, fore, L	„ „ „ „	...	...	...	...	36

38407
Equip.
1835

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* Except H.A. guns. † When mounted for small port only.
‡ When mounted on Mark II counterweight carriage only.
§ 1 to 5 guns per work.
‖ For guns on H.A. mountings only.
¶ *See* footnote ¶ page 364

Implements for R.M.L. Land Service Ordnance—*continued.*

	Ordnance, R.M.L.																	Proportion of Spare.	
	Guns.													Howitzers.					
	11-in.	10·4-in.	10-in.	9-in.	7-in., 7 tons.	7-in., 6½ tons.	6·6-in.	80-pr.	64-pr., 71 cwt.	64-pr., 64 cwt.	64-pr., 58 cwt.	40-pr.	25-pr.	8-in., 70 cwt.	8-in., 46 cwt.	6·6-in.	6·3-in.	In R.A. Charge.	In A.O. Charge.¶
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1 per section of defence	
5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...		
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 per gun ...	25 per cent
9	...	...	...	2‡	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per 2 guns ...	25 per cent.
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	c 12 per gun ...	
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	**1 per work	
15	...	**	**‖	**‖	...	...	...	...	...	...	...	...	...	...	...	...	...		... 73 3 9500 9618
16	...	...	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...		
17	...	...	...	...	...	...	2	2	2	2	...	...	...	2	1	2	1	1 per section of defence	
18	2	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
19	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...		
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per 2 guns ...	25 per cent.
22	...	§	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	1‖	1‖	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	1‖	1‖	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	1	1‖	1‖	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per gun ...	25 per cent.
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... 38407 Equip. 1800
27	...	1	1‖	1‖	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per work ...	...
28	...	...	...	...	...	...	1	...	...	...	...	*a*1	*a*1	2	1	2	1	...	...
29	...	...	...	...	...	...	1	...	...	...	...	*a*1	*a*1	2	1	2	1	...	...
30	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...
31	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	*b*1	*b*1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	*b*1	*b*1	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...

a For siege train only. The 40-pr., Mark I (34 cwt.) is not furnished with crossbar sights.
b When mounted behind shields only.
c In demands state mark of vent axial

Table of Component and Spare Parts, Appurtenances, and

Designation.	Details.					
		12·5-in., Mark I.	12·5-in., Mark II.	12-in., 35 tons.	12-in., 25 tons.	
COMPONENT	AND SPARE PARTS—*continued.*					
Sights fore M left	Bronze with socket	1	1	1	...	1
right	,, ,, ,, ...	1	1	1	...	2
N left	,, ,, ,, ...	...	...	...	1	3
right	,, ,, ,, ...	...	...	...	1	4
10·4-inch left ...	,, ,, ,, ...	...	...	...	...	5
right ...	,, ,, ,, ...	...	...	...	...	6
9-inch left ...	,, ,, ,, ...	...	...	...	...	7
right ...	,, ,, ,, ...	...	...	...	...	8
centre	... ...	*b*1	*b*1	*b*1	...	9
hind, centre	Bronze, with sighting blade...	...	...	...	*b*1	10
muzzle	Steel	...	...	...	...	11
reflecting fore	,, ...	2†	2†	...	...	12
hind, ...	with tangent scale, bar, and clamp bracket with reflector	2†	2†	...	...	13
mirrors ...	Glass, without frame	S	S	...	...	14
mirrors in frame	Bronze	S	S	...	...	15
tangent‡	Steel	...	...	...	...	16
left	,, ...	1	1	1	1	17
right	,, ...	1	1	1	1	18
Tommies, contact	Steel	...	...	...	...	19
Wrenches holder, tube	Iron	...	1	...	...	20
nut, vent	Iron, axial vents	...	1	...	...	21
plug, shutter	T-handled...	...	1	...	...	22
shutter	Steel, in 2 parts, with tommy	...	1	...	...	23
vent, steel cone ...	Steel, guns with steel cone vents	...	...	...	...	24

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* Except H.A. guns.

† When mounted for small port only.

‡ With 12·5-in. and 12-in. 35-ton guns mounted behind shields, the third tangent sight, used as a "centre hind sight," will be retained as such until it becomes unserviceable, after which either the "left" or "right" tangent sight, as may be most convenient, will be used.

¶ See footnote ¶, page 364.

Implements for R.M.L. Land Service Ordnance—*continued.*

	Ordnance, R.M.L.																	Proportion of Spares.	
	Guns.													Howitzers.					
	11-in.	10·4-in.	10-in.	9-in.	7-in., 7 tons.	7-in., 6½ tons.	6·6 in.	80-pr.	64-pr., 71 cwt.	64-pr., 64 cwt.	64-pr., 58 cwt.	40-pr.	25-pr.	8-in., 70 cwt.	8-in., 46 cwt.	6·6-in.	6·3-in.	In R.A. Charge.	In A.O. Charge.¶
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
3	1	...	1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
4	1	...	1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
5	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
6	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
7	...	...	...	1*	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
8	...	...	...	1*	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
9	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	... ...	... ...
10	*b*1	...	*b*1*	*b*1*	*b*1	*b*1	...	...	...	*b*1	1	...	...	...	...	...	...	... ...	... ...
11	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	... ...	... ...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
13	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	... ...	... ...
14	...	...	...	...	...	...	S	...	...	...	...	...	...	...	...	...	...	1 per gun	25 per cent.
15	...	...	...	...	...	...	S	...	...	...	...	...	...	...	...	...	...	1 per section of defence.	
16	...	...	...	...	2	...	2	2	2	2	...	2	2	...	...	...	...		
17	1	1	1*	1*	...	...	...	...	...	...	...	...	...	...	...	...	...		
18	1	1	1*	1*	...	...	...	...	...	...	...	...	...	...	...	...	...		
19	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...
24	...	...	*d*	*d*	...	...	...	...	...	...	...	...	...	...	...	...	...	... ...	... ...

b When mounted behind shields only.
d 2 per work.

COMPONENT AND SPARE PARTS FOR LAND SERVICE R.B.L. AND S.B.B.L. GUNS.

Articles.	Ordnance, R.B.L.							Ordnance S.B. B.L. 32-pr.	Remarks.
	7-in., 82 cwt.				40-pr.				
	Land Service.	Fitted for Moncrieff Carriage, Mark II.	Fitted for Carr. Garr. Sliding, Medium, No. 1.	7-in., 72 cwt.	35 cwt.	Side Closing.	20-pr., 16 cwt.		
Vocabulary Section V. (1).									
Clamps, tangent sight A	...	...	...	...	2	2	...	...	1 spare to every 10 or less number of clamps of the same nature.
Clamps, tangent sight C	2	2	2	...	...	...	...	...	
FITTINGS.									
Bands, elevating, with pivot and keep pin ...	...	...	...	...	1*	...	...	...	1 pivot spare to every 10 or less number of guns.
Blocks, breech, with obturating ring	...	...	...	...	...	1†	...	...	2 spare to each gun and 2 copper rings extra, per gun.
Bolts, eye, trunnion...	...	2**	...	...	...	...	...	...	1 left and 1 right spare to every 5 guns.
Brackets, guide, upper, with 3 fixing screws, lower with 5 fixing screws, stud stop (movable) with spiral spring	...	...	...	...	...	2‡	...	...	1 upper and 1 lower, spare, to every 10 or less number of guns; also 2 spiral springs and 2 fixing screws per gun, spare.
Bushes, breech	§	§	§	§	‖	‖	...	...	
Eyes, elevating, with bolt, washer, and keep pin	...	...	...	...	...	...	1	...	1 keep pin per gun, spare.
Pieces, vent¶ with preserving screw...	1	1	1	1	...	...	...	...	1 spare to every 20-pr. and 2 spare to every 40-pr. and 7-in. gun, and 2 rings, copper, extra per gun.
Pieces, vent¶ with preserving screw and obturating ring	...	...	...	...	1	...	...	...	
Pieces, vent¶ with obturating ring	...	...	...	...	...	...	1	...	

Ordnance, R.B.L. — Plates, elevating, with pivot keep pin and 4 fixing screws	...	...	2**	...	...	...	...	...	2 pivots to every 10 or less number of plates of the same nature, and 1 keep pin to each plate, spare.
Plates, elevating, counterweight carriage, Mark II, with bolt, washer, keep pin, and 5 fixing screws	...	1	...	...	...	...	...	...	1 keep pin, spare per gun.
Plates, hinge, for carrier, with 2 fixing screws and hinge pin	...	...	...	...	...	...	...	1	1 spare to every 10 or less number of guns.
Plates, trunnion	...	2	...	...	...	...	...	...	
Saddles with 6 fixing screws	1	1	1	1*c*	...	...	...	...	1 fixing screw, spare per gun.
Screws, bracket, guide, preserving	...	...	...	...	...	8	...	...	1 breech screw, complete, spare, to every 10 or less number of guns; *a* also 1 tappet ring and 1 lever keep pin per gun, spare; *b* also 1 clip retaining lever, with axis pin and 2 flat springs, per gun, spare.
Screws, breech, with lever, 2 keep pins, and tappet ring	...	...	...	...	...	...	1*a*	...	
Screws, breech, with lever, 2 keep pins, tappet ring, and indicator ring	1*a*	1*a*	1*a*	1*a*	1*a*	1*a*	...	...	
Screws, breech, with lever, 4 fixing screws, clip retaining lever, axis pin, and flat spring	...	...	...	...	...	...	...	1*b*	
Screws, eyebolt, trunnion preserving ...	...	2	...	...	...	...	...	...	
Screws, lanyard guide, preserving	1	...	...	...	1	...	...	...	For guns prepared for naval fittings only.
Screws, pin, friction tube, preserving ...	1	...	...	...	...	...	...	...	
Screws, plate, elevating, preserving	...	...	8	...	...	...	6	...	
Screws, plate, elevating, counterweight carriage, preserving	...	5	...	...	...	...	...	...	
Screws, set, tangent sight, with chain and eyebolt, left ...	...	...	...	...	...	...	1	...	
Screws, set, tangent sight, with chain and eyebolt, right ...	...	...	...	...	...	...	1	...	
Screws, sight, fore, preserving	...	...	...	...	...	...	...	2	
Screws, sight, reflecting, upper, preserving	...	3	...	...	...	...	...	...	
Sockets, sight, tangent, with set screw ...	...	...	...	2	...	...	...	...	
Studs, retaining breech block, with releasing lever, axis pin, and spiral spring	...	...	...	...	...	1	...	...	2 spiral springs, spare per gun.

---

* When mounted on garrison sliding carriage.
† For drill purposes a drill breech block is issued.
‡ 1 upper and 1 lower.
§ Iron, 1 set per gun.
‖ Copper, 2 per gun.

¶ The service vent piece is not to be used during drill, drill vent pieces being issued for that purpose.
** 1 left and 1 right.
c. 4 fixing screws only.

Fittings and Component and Spare Parts for Land Service R.B.L. and S.B.B.L. Guns—*continued.*

Articles.	Ordnance, R.B.L.							Ordnance S.B. B.L. 32-pr.	Remarks.
	7-in., 82 cwt,				40-pr.				
	Land Service.	Fitted for Moncrieff Carriage, Mark II.	Fitted for Carr. Garr. Sliding, Medium, No. 1.	7-in., 72 cwt.	35 cwt.	Side Closing.	20-pr., 16 cwt.		
SPECIAL IMPLEMENTS.									
Ordnance … R.B.L., Levers, vent piece, lifting … …	1	1	1	1	…	…	…	…	
Ordnance … R.B.L., Levers, vent piece, releasing… …	1	1	1	1	…	…	…	…	
Ordnance … S.B.B.L., Levers, releasing breech screw, wood	…	…	…	…	…	…	…	1	1 spare per gun.
Ordnance … S.B.B.L., Wrenches, breech mechanism A	…	…	…	…	…	…	…	1	
Ordnance … S.B.B.L., Wrenches, breech mechanism B	…	…	…	…	…	…	…	1	
FITTINGS.									
Ordnance … S.B.B.L., Carriers, bronze, with cover, 4 fixing screws, lever retaining carrier, axis pin, flat spring, and 2 fixing screws, stop for breech screw, with spiral spring, and lever directing stop, with axis pin	…	…	…	…	…	…	…	1	1 spare to every 10 or less number of guns, and 2 springs of each nature per gun.
Ordnance … S.B.B.L., Cups, obturating, with spindle, spring, and 2 nuts	…	…	…	…	…	…	…	3*	

Discs, cup, obturating	...	...	...	...	...	...	...	3	1 spare to every 10 or less number of guns.
Studs, catch, retaining carrier closed	...	...	...	...	...	...	...	1	
Sights R.B.L. fore, F	2	2	2	...	2	2	2	...	1 spare to every 10 or less number of sights of the same nature.
Sights R.B.L. fore	...	...	...	2†	...	...	...	...	
Sights R.B.L. tangent	2	2	2	2	2	2	2	...	1 spare to every 10 or less number of sights of the same nature.
Sights S.B.B.L.	...	...	...	...	...	...	...	1	

* 1 large and 2 small.

† Screw.

NOTE.—1 spare gun will be allowed, if available, for 20 pieces or less of the same nature in each district abroad.

B.L. CARRIAGES*—COMPONENT

38407
Equip.
1538

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Arcs, indicator, lever, cross shaft, raising valve, with nuts	...	1	...	...	...	...	...	1
Axles, roller, steel ... with nut ...	...	...	...	...	...	...	...	2
„ „ and split key	...	20	...	...	...	...	...	3
„ nuts ...	...	...	...	...	...	...	...	4
with nuts long ...	...	...	...	...	...	...	...	5
medium	...	...	...	...	...	...	...	6
short ...	...	...	...	...	...	...	...	7
with nuts and screws centre flat head	...	...	...	2	2	...	...	8
round head	...	...	...	2	2	...	...	9
front ...	...	...	...	4	4	...	...	10
rear ...	...	...	...	2	2	...	...	11
with screws long ...	...	...	...	...	...	12	...	12
short ...	...	...	...	...	...	2	...	13
with screws	14	...	...	...	...	...	10	14
truck iron ... left ...	...	...	...	...	...	...	...	15
right	...	...	...	...	...	...	...	16
steel, with key	...	...	4	...	...	...	...	17
Bar, portable, supporting cover plate, with pin and chain left	...	1	...	...	...	...	...	18
right	...	1	...	...	...	...	...	19
Bearings, with bolts or screws, iron, axle, roller inside	14	...	...	...	...	14	10	20
outside ...	14	...	...	...	...	14	10	21
traversing gear 2nd motion shaft (foot)	...	2	...	...	...	...	...	22
3rd „ „ lower	...	2	...	...	...	...	...	23
upper	...	2	...	...	...	...	...	24
metal, axle, roller inside	...	...	...	4	4	...	...	25
outside	...	...	...	6	6	...	...	26
pinion, spindle, elevating gear ...	...	...	...	...	...	...	1	27
1st motion	...	...	...	...	...	...	...	28
2nd „	...	...	...	2	2	...	...	29
elevation indicator	...	...	...	...	...	...	1	30
gear indicator ...	...	...	...	1	1	...	...	31
traversing inside	...	...	...	...	...	...	...	32
outside	...	...	...	...	...	...	...	33
spindle pump, running back ...	...	...	...	1	1	...	...	34
valve, by pass, with screws	...	...	1	...	...	...	...	35
trunnion ...	2	...	...	2	2	...	...	36
elevating pinion, metal in two parts	...	...	...	...	...	...	...	37
shaft, cross, pump lowering 1st motion ...	...	...	...	...	...	...	...	38
left	...	1	...	...	...	...	...	39
right	...	1	...	...	...	...	...	40
2nd motion ...	...	...	...	...	...	...	...	41
left	...	1	...	...	...	...	...	42
right	...	1	...	...	...	...	...	43
left ...	...	...	...	...	...	...	...	44
right ...	...	...	...	...	...	...	...	45
main, with cap and bolts ...	...	...	2	...	...	...	...	46
raising valve left ...	...	1	...	...	...	...	...	47
right	...	1	...	...	...	...	...	48

¶ Mark I and Mark IA carriages are the same in all respects as regards component parts, but Mark IA is of slightly different dimensions to Mark I to suit the Mark I gun. The Mark I Gun is fitted with elevating plates instead of an elevating band.

a denotes the parts which differ in dimensions, and in demanding these parts the mark of the carriage must be quoted to prevent mistakes.

AND SPARE PARTS FOR.

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II. and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	1	...	...	...	...	1	1	...	1	...	...	...	...
2	...	...	...	...	...	16	...	...	...	...	...	...	...
3	18	...	...	...	...	...	16	...	16	...	...	...	..
4	...	...	...	...	8	...	...	...	...	...	...	...	1
5	...	...	...	...	...	...	...	...	...	...	2	...	...
6	...	...	...	...	...	...	...	...	...	...	2	...	...
7	...	...	...	...	...	...	...	...	...	...	4	...	...
8	...	...	2	...	...	...	...	...	...	...	...	...	1
9	...	...	2	...	...	...	...	...	...	...	...	...	1
10	...	...	4	...	...	...	...	...	...	...	...	...	1
11	...	...	2	...	...	...	...	...	...	...	...	...	1
12	...	...	...	12	...	...	...	...	...	...	...	...	1
13	...	...	...	2	...	...	...	...	...	...	...	...	1
14	...	...	...	...	...	...	...	...	...	...	...	...	1‡
15	...	...	...	...	...	...	...	2	...	...	...	...	...
16	...	...	...	...	...	...	...	2	...	...	...	...	...
17	...	4	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	14	...	...	...	...	...	...	...	...	...
21	...	...	...	14	...	...	...	...	...	...	...	...	...
22	2	...	...	...	...	...	...	...	...	...	...	...	...
23	2	...	...	...	...	...	...	...	...	...	...	...	...
24	2	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	4	...	8	...	...	...	...	...	4	...	...
26	...	...	6	...	8	...	...	...	...	...	6	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	1	...	..	...	...	...	...	...	...
29	...	...	2	...	1	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	1	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	4	...	...	...	...	...
33	...	...	...	...	...	...	...	4	...	...	...	...	...
34	...	...	1	...	...	...	...	...	...	...	...	...	...
35	...	1	...	...	...	...	...	...	...	...	...	...	...
36	...	...	*a*2	...	2†	...	...	...	...	...	2	...	...
37	...	...	...	...	...	...	...	...	...	...	...	1	...
38	...	...	...	...	...	...	2	...	2	...	...	...	...
39	1	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	...	...	...	2	...	2	...	...	...	...
42	1	...	...	...	...	...	...	...	...	...	...	...	...
43	1	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	1	...	...	...	...	...	...	...
45	...	...	...	...	...	1	...	...	...	...	...	...	...
46	...	2	...	...	...	...	...	...	...	...	...	..	...
47	1	...	...	...	...	1	1	...	1	...	...	...	...
48	1	...	...	...	...	1	...	...	...	...	...	...	...

---

* Except carriage garrison barbette, B.L. 9·2-inch (Mark III), for which *see* pages 424 to 431, and carriages travelling with limbers, B.L., 5-inch and 4-inch, for which *see* pages 432 to 434.

† 1 left and 1 right.

‡ 2 for the 10-in. Mark III.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I.		Mark II.	Mark III.	
				C.	D.			
Bearings, with bolts or screws, shaft, elevating, 1st motion ...	...	...	...	...	...	...	...	1
Bearings, with bolts or screws, shaft, elevating, 1st motion, left	...	1	...	...	...	...	...	2
Bearings, with bolts or screws, shaft, elevating, 1st motion, right	...	1	...	...	...	...	...	3
Bearings, with bolts or screws, shaft, elevating, 1st motion, and shaft cross raising valve	...	...	...	...	...	...	...	4
Bearings, with bolts or screws, shaft, elevating, 2nd motion ...	...	...	...	...	...	...	...	5
Bearings, with bolts or screws, shaft, elevating, 2nd motion, left	...	1	...	...	...	...	...	6
Bearings, with bolts or screws, shaft, elevating, 2nd motion, right	...	1	...	...	...	...	...	7
Bearings, with bolts or screws, steel, trunnion ...	...	...	...	...	...	...	2	8
Blocks, trunnion, left, steel with M.B. clip bars, with screws and an anti-friction liner	...	...	...	...	...	...	...	9
Blocks, trunnion, right, steel with M.B. clip bars, with screws and an anti-friction liner	...	...	...	...	...	...	...	10
Blocks, wood, housing...	...	...	...	...	...	...	...	11
Boards, sighting platform, wood ...	...	4	...	...	...	...	...	12
Bolts, connecting piston rod, steel, with nut ...	...	...	...	2	2	...	...	13
Bolts, with nuts assorted ... sets	...	...	1	...	...	...	...	14
Box, guard, with bearings, 1st and 2nd motion shafts, gear traversing	...	2	...	...	...	...	...	15
Brackets, with bolts or screws, buffer, left ...	...	...	...	...	...	...	...	16
Brackets, buffer, right ...	...	...	...	...	...	...	...	17
Brackets, carrying gear, traversing, with cap ...	...	...	...	...	...	...	...	18
Brackets, clip, elevator ...	...	2	...	...	...	...	...	19
Brackets, elevating, rear ...	...	...	...	...	...	...	...	20
Brackets, elevator, joint pin, left ...	...	1	...	...	...	...	...	21
Brackets, elevator, joint pin, right ...	...	1	...	...	...	...	...	22
Brackets, hydraulic buffer, front ...	...	...	...	...	...	...	...	23
Brackets, hydraulic buffer, rear ...	...	...	...	...	...	...	...	24
Brackets, intermediate, vertical shafts, elevating gear, metal	...	...	...	...	...	1	...	25
Brackets, ladder, hinge, sighting platform, steel, with bolts	...	...	...	...	...	...	...	26
Brackets, ladder, stay, sighting platform, steel, with bolts and pin with collar and split key	...	...	...	...	...	...	...	27
Brackets, lever, plunger, pump lowering ...	...	...	...	...	...	...	...	28
Brackets, loading gear, roller guide...	...	...	1	...	...	...	...	29
Brackets, loading gear, shaft, winch handle ...	...	...	2	...	...	...	...	30
Brackets, loading gear, shaft, wheel sprocket ...	...	...	2	...	...	...	...	31
Brackets, pans, drip, hydraulic buffer, left ...	1	...	...	...	...	...	...	32
Brackets, pans, drip, hydraulic buffer, right ...	1	...	...	...	...	...	...	33
Brackets, pinion, elevating, steel ...	...	...	...	...	...	1	...	34
Brackets, pinion, spindle, elevation indicator, metal	...	...	...	...	...	1	...	35
Brackets, pointer, arc traversing, left ...	...	...	1	...	...	...	...	36
Brackets, pointer, arc traversing, right ...	...	...	1	...	...	...	...	37
Brackets, pointer, steel ...	...	...	...	...	...	...	...	38
Brackets, securing, pump, running back ...	...	...	...	...	...	...	2	39
Brackets, shaft, rear of slide ...	...	...	...	...	...	...	...	40

¶ *See* note ¶ page 376.
† 1 set for 9·2-in. and 10-in. E. and A. (Mark II).

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	1	...	1	...	...	...	...	...
2	1	...	...	...	...	...	...	...	...	...	...	...	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	1	...	1	...	...	...	...
5	...	2	...	...	...	...	...	...	...	...	...	...	...
6	1	...	...	...	...	...	...	...	...	...	...	...	...
7	1	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	...	...	1	...	...	...	...	...
12	4	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	1	...	...	...	...	...	...	...	...	...	...
14	...	1	...	...	...	...	...	...	...	...	...	...	1†
15	2	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	1	...	...
17	...	...	...	...	...	...	...	...	...	...	1	...	...
18	...	...	...	...	...	2	2	...	2	...	...	...	...
19	2	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	1	...	...	...
21	1	...	...	...	...	1	1	1	1	...	...	...	...
22	1	...	...	...	...	1	1	1	1	...	...	...	...
23	...	...	...	...	1	...	...	...	...	...	1	...	...
24	...	...	...	...	1	...	...	...	...	...	1	...	...
25	...	...	...	1	...	...	...	...	...	...	...	...	...
26	2	...	...	...	...	...	...	...	...	...	...	...	...
27	2	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	1	...	...	...	...	...
29	...	1	...	...	...	...	...	...	...	...	...	...	...
30	...	2	...	...	...	...	...	...	...	...	...	...	...
31	...	2	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	1	...	...	...	...	...	...	...	...	...
35	...	...	...	1	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	1	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	1	...	...	...

B.L. Carriages—Component

Components.	12-inch. Garrison.	10-inch. Disappearing. Mark I.	10-inch. Disappearing. Mark II.	10-inch. Barbette. Mark I. C.	10-inch. Barbette. Mark I. D.	10-inch. Barbette. Mark II.	10-inch. Barbette. Mark III.	
Brackets, with bolts or screws, shield, pillars	...	...	...	...	...	...	...	1
lower, front, left	...	...	...	...	...	...	...	2
right	...	...	...	...	...	...	...	3
rear, left	...	...	...	...	...	...	...	4
right	...	...	...	...	...	...	...	5
upper, front, left	...	...	...	...	...	...	...	6
right	...	...	...	...	...	...	...	7
rear, left	...	...	...	...	...	...	...	8
right	...	...	...	...	...	...	...	9
sliding gear, elevating, metal	...	...	...	...	...	1	1	10
spindle, second and third motion, left	...	...	2	...	...	...	...	11
right	...	...	2	...	...	...	...	12
pump, running back	...	...	...	1	1	...	...	13
worm, elevating	...	...	...	...	...	...	...	14
traversing gear, handle crank, inside	...	...	2	...	...	...	...	15
outside	...	...	2	...	...	...	...	16
trunnions, recoil cylinder	...	2	...	...	...	...	...	17
supporting firing key, metal with screws	...	...	...	...	...	...	...	18
Buffers, consisting of one bracket, steel, 40 disc springs, blocks parting and striking, and 2 spindles, with nuts and pins	...	2	...	...	...	...	...	19
36 disc springs, blocks parting and striking, and 2 spindles, with nuts and pins	...	...	...	...	...	...	...	20
24 disc springs, blocks parting and striking, and 2 spindles, with nuts and pins	...	...	...	...	...	...	...	21
28 disc springs, blocks parting and striking, 2 spindles with nuts and pins, plates, holding down elevator, with pin, padlock and chain	...	...	...	...	...	...	...	22
28 disc springs, blocks parting and striking, and 2 spindles, with nuts	...	...	...	...	...	...	...	23
consisting of 2 caps, 8 indiarubber pads, 6 plates, 2 spindles, with nuts and keys	...	...	2	...	...	...	...	24
hydraulic, complete	...	...	...	2	2	...	2	25
hydraulic :— Bars, equalising, M.B.	...	...	...	...	...	...	...	26
Boxes, stuffing, metal...	...	...	...	...	...	...	...	27
Caps, front, steel	...	...	...	...	...	...	...	28
rear ,, ...	...	...	...	...	...	...	...	29
Glands, metal	...	...	...	...	...	...	...	30
Packing, hydraulic; ½-in. square section lengths (length of 40-in.)	...	...	...	...	...	...	...	31
Pipes, connecting, copper, with fittings... ...	...	...	...	...	...	...	...	32
Pistons, steel with rod, metal piston ring, disc spring, and nuts, with taper pin	...	...	...	...	...	...	...	33
Plugs, filling hole, No. 40; iron, with leather washer, handle, chain and loop	...	...	...	...	...	...	...	34

¶ *See* note ¶ page 376.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		§ Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II. and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	4	...	4	...	...	...	...
2	...	...	...	...	...	1	...	...	...	...	...	...	...
3	...	...	...	...	...	1	...	...	...	...	...	...	...
4	...	...	...	...	...	1	...	...	...	...	...	...	...
5	...	...	...	...	...	1	...	...	...	...	...	...	...
6	...	...	...	...	...	1	...	...	...	...	...	...	...
7	...	...	...	...	...	1	...	...	...	...	...	...	...
8	...	...	...	...	...	1	...	...	...	...	...	...	...
9	...	...	...	...	...	1	...	...	...	...	...	...	...
10	...	...	...	1	...	...	...	...	...	...	...	1	...
11	...	2	...	...	...	...	...	...	...	...	...	...	...
12	...	2	...	...	...	...	...	...	...	...	...	...	...
13	...	...	1	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	1	...	...	...
15	...	2	...	...	...	...	...	...	...	...	...	...	...
16	...	2	...	...	...	...	...	...	...	...	...	...	...
17	2	...	...	...	...	2	2	2	2	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	2	...	..	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	2	...	...	...	...	...	...	...
22	...	...	...	...	...	...	2	...	2	...	...	...	...
23	...	...	...	...	...	...	...	2	...	...	...	...	...
24	...	2	...	...	...	...	...	...	...	...	...	...	...
25	...	...	1	...	1	...	...	...	...	...	1	...	...
26	...	...	...	...	...	...	...	...	...	...	...	2	...
27	...	...	...	...	...	...	...	...	...	...	...	2	1†
28	...	...	...	...	...	...	...	...	...	...	...	2	...
29	...	...	...	...	...	...	...	...	...	...	...	2	...
30	...	...	...	...	...	...	...	...	...	...	...	2	1†
31	...	...	...	...	...	...	...	...	...	...	...	1	2 per carriage.‡
32	...	...	...	...	...	...	...	...	...	...	...	1	1‡
33	...	...	...	...	...	...	...	...	...	...	...	2	1†
34	...	...	...	...	...	...	...	...	...	...	...	2	1 per 5 carriages or less‡

† Per district in A. O. charge. ‡ In R. A. charge.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disap-pearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Buffers, hydraulic—*continued*.								
Plungers, controlling running out; M.B., with nut, valve, gland, and 4 leather washers	...	...	...	...	...	...	...	1
Rings, packing; leather L section	...	...	...	...	...	...	...	2
Tubes { left; steel	...	...	...	...	...	...	...	3
Tubes { right ,, ...	...	...	...	...	...	...	...	4
Washers, packing { leather (set of 16) ... ... sets	...	...	...	...	...	...	...	5
Washers, packing { connecting pipe, leather (set of 3) sets ...	...	...	...	...	...	...	...	6
Caps { bearing, elevating pinion, steel, with screws ...	...	...	...	...	...	...	...	7
Caps { iron ... { front	2	...	...	...	...	...	...	8
Caps { iron ... { rear	2	...	...	...	...	...	...	9
Caps { hydraulic buffer { metal, rear	...	...	...	2	2	...	...	10
Caps { hydraulic buffer { steel { left	...	...	...	...	...	...	...	11
Caps { hydraulic buffer { steel { right	...	...	...	...	...	...	...	12
Capsquares ... { metal	...	...	...	...	...	...	...	13
Capsquares ... { steel	2	...	...	2	2	...	...	14
Carriages, body, without fittings	1	1	1	1	1	1	1	15
Chains { keep, with shackle aud bolt	...	...	...	...	...	...	...	16
Chains { securing gun, housing, position with coupling and hooks	...	...	...	...	...	...	...	17
Clips, iron { elevator { with nut, screw, pin, and split key	...	...	...	...	...	...	...	18
Clips, iron { elevator { with set screw, pin, collar, and key	...	2‡	...	...	...	...	...	19
Clips, iron { with nuts and screws	...	...	2	...	...	...	...	20
Connection, pipe, running back pump, metal	...	...	...	...	...	1	...	21
Cotters, shield pillars { with eye	...	...	...	...	...	...	...	22
Cotters, shield pillars { plain	...	8	...	...	...	...	...	23
Cross heads, rod, piston, steel, with split key	...	...	...	2	2	...	...	24
Cups, leather, packing piston rod	...	...	...	...	...	...	...	25
Derrick, pump, running back	...	...	...	...	...	...	1	26
Elevators, parts of, { capsquares { left	...	1	1	...	...	...	...	27
Elevators, parts of, { capsquares { right	...	1	1	...	...	...	...	28
Elevators, parts of, { elevators, without fittings	...	1	1	...	...	...	...	29
Elevators, parts of, { keys, capsquare, with chain { No. 74	...	..	...	...	...	...	...	30
Elevators, parts of, { keys, capsquare, with chain { ,, 75	...	4	...	...	...	...	...	31
Elevators, parts of, { keys, capsquare, with chain { ,, 76	...	..	...	...	...	...	...	32
Elevators, parts of, { screws, capsquare { iron	...	...	...	...	...	...	...	33
Elevators, parts of, { screws, capsquare { metal	...	...	...	...	...	...	...	34
Flanges, truck, with bolts	...	...	8	...	...	...	...	35
Girders, { sighting { left or centre } steel, with bolts and screws	...	2	...	...	...	...	...	36
Girders, { platform { right } steel, with bolts and screws	...	1	...	...	...	...	...	37
Guards, gun muzzle, on shield, with screws	...	1	...	...	...	...	...	38

¶a *See* note ¶ page 376.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV. & VI. guns.		Mark V. gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.	Mark II.	Mark I.	Mark II. and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	...	...	2	...
2	...	...	...	...	...	...	...	...	...	...	...	2	4 per carriage.†
3	...	...	...	...	...	...	...	...	...	...	...	1	...
4	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	...	...	...	...	1	2 per carriage.†
6	...	...	...	...	...	...	...	...	...	...	...	1	2 per carriage.†
7	...	...	...	...	...	...	...	...	...	...	...	1	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	1	...	1	...	...	...	...	...	1	...	...
11	...	...	...	...	...	...	...	...	...	1	...	...	...
12	...	...	...	...	...	...	...	...	...	1	...	...	...
13	...	...	...	...	2	...	...	...	...	2	...	...	2‡
14	...	...	*a*2	...	...	...	...	...	...	...	2	2	...
15	1	1	*a*1	1	1	1	1	1	1	1	1	...	...
16	...	...	...	...	...	...	...	2	...	...	...	...	...
17	...	...	...	...	...	...	...	1	...	...	...	...	...
18	...	...	...	...	...	2‡	...	...	...	...	...	...	...
19	2‡	...	...	...	...	...	...	...	...	...	...	...	...
20	...	2	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	1	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	4	...	4	...	...	...	...
23	8	...	...	...	...	4	4	...	4	...	...	...	...
24	...	...	1	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	2	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	1	1	...	...	...	1	1	1	1	...	...	...	...
28	1	1	...	...	...	1	1	1	1	...	...	...	...
29	1	1	...	...	...	1	1	1	1	...	...	...	...
30	...	...	...	...	...	...	2	...	2	...	...	...	...
31	...	...	...	...	...	...	...	...	..	..	...	...	...
32	4	..	...	...	...	..	...	...	...	...	...	...	...
33	...	...	...	...	...	3	...	3	...	...	...	...	...
34	...	...	...	...	...	1	...	1	...	...	...	...	...
35	...	8	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...
38	1	...	...	...	...	1	1	...	1	...	...	...	...

† In R.A. charge. ‡ 1 right and 1 left.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disap-pearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Glands, hydraulic buffer, metal ... ... inside	...	...	...	...	...	...	...	1
outside	...	...	...	...	...	...	...	2
inside	2	...	...	2	2	2	2	3
outside	2	...	...	2	2	2	2	4
filling hole	2	...	...	...	...	...	...	5
Guides arc, elevating metal, with screws	...	...	...	1	1	...	...	6
with bolts and caps ...	...	...	2	...	...	...	...	7
with bolts and caps left ...	...	1	...	...	...	...	...	8
with bolts and caps right	...	1	...	...	...	...	...	9
Hooks, stowing, lever, pump, lowering	...	...	...	...	...	...	...	10
Keys capsquare, with chain No. 70	4	...	...	...	...	...	...	11
,, 71	...	...	...	...	...	...	...	12
,, 72	...	...	...	2	2	...	...	13
,, 73	...	...	...	...	...	...	...	14
,, 137	...	...	...	...	...	...	...	15
securing piston rod ... left	...	...	...	...	...	...	...	16
right	...	...	...	...	...	...	...	17
split round L head, rod piston hydraulic buffer, 5-in. × 0·6-in.	...	...	...	...	...	...	...	18
loop head axle roller, 0·3-in. × 3·375-in.	...	...	...	...	...	...	...	19
wrought-iron, with chain, securing pump, running back	...	...	...	...	...	...	2	20
Ladders, sighting platform, steel	...	...	...	...	...	...	...	21
Levers, iron ... adjusting rod, piston ... left	1	...	...	...	...	...	...	22
right	1	...	...	...	...	...	...	23
pump, running back	...	...	...	1	1	...	...	24
Liners ... manganese bronze, carriage	...	...	...	...	...	...	...	25
steel, cylinder	...	...	...	...	...	...	...	26
Loops ... iron... with collar and nut	...	...	...	...	...	4	...	27
with rivets	...	...	...	...	...	...	...	28
with nuts ...	4	...	...	...	...	...	...	29
steel ...	...	...	...	...	...	...	...	30
bracket front	...	...	...	...	...	...	2	31
rear ...	...	...	...	...	...	...	2	32
with nuts ...	...	...	...	2	2	...	...	33
steel, lifting shield	...	2	...	...	...	...	...	34
capsquares and cylinder cover	...	2	...	...	...	...	...	35
Ordnance, B.L., plates, elevating	...	...	...	...	...	...	...	36
Packings, hydraulic buffer length of 12 inches	...	...	...	...	...	...	...	37
,, ,, 56 ,,	2	...	...	...	...	...	...	38
,, ,, 64 ,,	...	...	...	2	2	...	...	39
,, ,, 84 ,,	...	...	...	...	...	...	...	40
,, ,, 8 feet	...	...	...	...	...	2	2	41
Packings, hydraulic buffer (set of 8) consisting of—								
Washers, leathers (set of 6) ... sets	...	...	...	...	...	...	1	42
Rings, leather, L section (set of 2)	...	...	...	...	...	...	1	43
Packings, pipe, connecting hydraulic buffer (set of 4), consisting of—								
Washers, leather (set of 4) ... sets	...	...	...	...	...	...	1	44
Pans, drip, hydraulic buffer, No. 1	2	...	...	...	...	...	...	45

¶a *See* note ¶ page 376. † For 8-in barbette only.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Mark IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II. and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	1	...	1	...	...	..	...	...	1	...	1†
2	...	...	1	...	1	...	...	...	...	...	1	...	1†
3	...	...	...	2	...	...	...	...	...	2	...	...	...
4	...	...	...	2	...	...	...	...	...	2	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	2	*a*1	...	...	...	...	...	...	...	...	...	...
7	...	2	...	...	...	...	...	...	...	...	...	...	...
8	1	...	...	...	...	1	1	1	1	...	...	...	...
9	1	...	...	...	...	1	1	1	1	...	...	...	...
10	...	...	...	...	...	2	2	...	2	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	2
12	...	...	...	...	...	...	...	...	...	...	2	...	1
13	...	...	2	...	...	...	...	...	...	...	...	...	...
14	...	...	..	...	4	...	...	...	...	...	...	...	1
15	...	...	...	...	...	...	...	...	...	2	...	...	2
16	...	...	...	...	...	...	...	...	...	1	...	...	1
17	...	...	...	...	...	...	...	...	...	1	..	...	1
18	...	...	...	...	...	...	...	...	...	...	1	...	6
19	...	...	...	...	...	...	...	...	...	...	8	...	12
20	...	...	...	...	...	...	...	...	...	...	...	...	...
21	1	...	...	...	...	...	...		...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	1	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	2	...	...	...
26	...	...	...	...	...	...	...	...	...	2	...	...	...
27	...	...	...	4	...	...	...	...	...	...	...	...	...
28	...	...	...	...	2	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	2	...	...
30	...	...	...	...	...	...	...	...	...	2	1	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	2	...	...	...	...	...	...	...	...	...	...
34	2	...	...	...	...	...	...	...	...	...	...	...	...
35	2	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	2	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	4	...	4§
38	...	...	...	...	...	...	...	...	...	...	...	...	2§
39	...	...	1	...	...	...	...	...	...	...	...	...	2§
40	...	...	...	...	...	...	...	...	...	1	...	...	2§
41	...	...	...	2	...	...	...	...	...	...	...	...	2§
42	...	...	...	...	...	...	...	...	...	...	...	...	2§
43	...	...	...	...	...	...	...	...	...	...	...	...	2§
44	...	...	...	...	...	...	...	...	...	...	...	...	1
45	...	...	...	...	...	...	...	...	...	...	...	...	...

§ Per carriage.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I. C.	Mark I. D.	Mark II.	Mark III.	
Pillars, shield... inside... front left	...	1	...	...	...	...	...	1
Pillars, shield... inside... front right	...	1	...	...	...	...	...	2
Pillars, shield... inside... rear left	...	1	...	...	...	...	...	3
Pillars, shield... inside... rear right	...	1	...	...	...	...	...	4
Pillars, shield... outside front left	...	1	...	...	...	...	...	5
Pillars, shield... outside front right	...	1	...	...	...	...	...	6
Pillars, shield... outside rear left	...	1	...	...	...	...	...	7
Pillars, shield... outside rear right	...	1	...	...	...	...	...	8
Pillars, shield... with cotter	...	...	...	...	...	...	...	9
Pillars, shield... ,, screw	...	...	...	...	...	...	...	10
Pins connecting rod, steel, with collar and nut	1	...	...	...	...	...	...	11
Pins joint ... elevator, with collars and keys	...	...	...	...	...	...	...	12
Pins joint ... with plate and screws	...	2	...	...	...	...	...	13
Pins lever, adjusting, steel, with nuts	2	...	...	...	...	...	...	14
Pins taper, shaft, gear, elevating, steel, large end ·432-in. small end ·36 in. 3·25 in. long	...	...	...	...	...	...	...	15
Pipes, connecting, hydraulic buffer...	1	...	...	1	1	1	1	16
Pistons P.B.	...	...	...	...	...	...	2	17
Pistons with rod valve and nuts —	...	...	...	...	...	...	...	18
Pistons with rod valve and nuts left...	1	...	...	1	1	1	...	19
Pistons with rod valve and nuts right	1	...	...	1	1	1	...	20
Plates arrow, metal, with screws, elevate and depress right	...	2	...	...	...	...	...	21
Plates arrow, metal, with screws, elevate and depress left	...	2	...	...	...	...	...	22
Plates arrow, metal, with screws, trail right	...	2	...	...	...	...	...	23
Plates arrow, metal, with screws, trail left	...	2	...	...	...	...	...	24
Plates arrow, metal, with screws, elevator ... pairs	...	1	...	...	...	...	...	25
Plates clip steel, with bolts	...	8	...	...	...	...	...	26
Plates clip front with bolts and bushes ... pairs	...	...	...	...	...	...	...	27
Plates clip front steel with bolts... ,,	...	...	...	...	...	1	...	28
Plates clip front steel with lubricating screws ,,	...	...	...	2	2	...	...	29
Plates clip front steel pairs	...	...	...	...	...	...	...	30
Plates clip iron, with bolts	4	...	...	...	...	...	4	31
Plates clip rear, steel ... pairs	...	...	...	1	1	...	...	32
Plates clip front, right, with 5 bolts, or rear left	...	...	...	...	...	...	...	33
Plates clip ,, left, ,, ,, ,, right	...	...	...	...	...	..	...	34
Plates clip steel, with bolts ... front ...	...	...	...	...	...	...	...	35
Plates clip steel, with bolts ... rear ...	...	...	...	...	...	...	...	36
Plates connecting, piston rod, iron	1	...	...	...	...	...	...	37
Plates covershield, steel‡‡ No. I	...	1	...	...	...	...	...	38
Plates covershield, steel‡‡ ,, II	...	1	...	...	...	...	...	39
Plates covershield, steel‡‡ ,, III	...	1	...	...	...	...	...	40
Plates covershield, steel‡‡ ,, IV	...	1	...	...	...	...	...	41
Plates covershield, steel‡‡ ,, V	...	1	...	...	...	...	...	42
Plates covershield, steel‡‡ ,, VI	...	1	...	...	...	...	...	43
Plates covershield, steel‡‡ ,, VII	...	1	...	...	...	...	...	44
Plates covershield, steel‡‡ ,, VIII	...	1	...	...	...	...	...	45
Plates covershield, steel‡‡ ,, IX	...	1	...	...	...	...	...	46
Plates covershield, steel‡‡ ,, X	...	1	...	...	...	...	...	47
Plates covershield, steel‡‡ ,, XI	...	1	...	...	...	...	...	48
Plates covershield, steel‡‡ ,, XII	...	1	...	...	...	...	...	49

71
1
8366

¶ *See* note ¶, page 376.
† For 6-inch barbette only.
‡ 1 each for 12 in. garrison, 9·2-in. barbette II, 10-in. barbette II.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Mark IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	1	...	...	...	...	...	1	...	1	...	...	...	...
2	1	...	...	...	...	...	1	...	1	...	...	...	...
3	1	...	...	...	...	...	1	...	1	...	...	...	...
4	1	...	...	...	...	...	1	...	1	...	...	...	...
5	1	...	...	...	...	...	1	...	1	...	...	...	...
6	1	...	...	...	...	...	1	...	1	...	...	...	...
7	1	...	...	...	...	...	1	...	1	...	...	...	...
8	1	...	...	...	...	...	1	...	1	...	...	...	...
9	...	...	...	...	...	4	...	4	...	...	...	...	...
10	...	...	...	...	...	4	...	4	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	2	2	2	2	...	...	...	...
13	2	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	6†
16	...	...	...	1	...	...	...	...	...	1	...	...	1‡
17	...	...	...	...	...	...	...	...	...	...	...	...	2
18	...	...	1	...	1	...	...	...	...	...	1	...	...
19	...	...	...	1	...	...	...	...	...	1	...	...	1§
20	...	...	...	1	...	...	...	...	...	1	...	...	1§
21	2	...	...	...	...	2	2	2	2	...	...	...	...
22	2	...	...	...	...	2	2	2	2	...	...	...	...
23	2	...	...	...	...	2	2	2	2	...	...	...	...
24	2	...	...	...	...	2	2	2	2	...	...	...	...
25	1	...	...	...	...	1	1	1	1	...	...	...	...
26	8	...	...	...	...	4**	...	...	...	...	...	...	2
27	...	...	...	...	...	...	...	...	...	...	...	...	1
28	...	...	...	1	...	...	...	...	...	...	...	...	...
29	...	...	2	...	...	...	...	...	...	...	...	...	1
30	...	...	...	...	1	1††	...	...	...	...	2	...	1
31	...	...	...	...	...	...	...	...	...	...	...	...	4‖
32	...	...	1	...	1	1††	...	...	...	...	1	...	1
33	...	...	...	...	...	...	...	2	...	...	...	...	1
34	...	...	...	...	...	...	...	2	...	...	...	...	1
35	...	...	...	...	...	...	1	...	1	...	...	...	1
36	...	...	...	...	...	...	2	...	2	...	...	...	1
37	...	...	...	...	...	...	...	...	...	...	...	...	...
38	1	...	...	...	...	1	1	1	1	...	...	...	...
39	1	...	...	...	...	1	1	1	1	...	...	...	...
40	1	...	...	...	...	1	1	1	1	...	...	...	...
41	1	...	...	...	...	1	1	1	1	...	...	...	...
42	1	...	...	...	...	1	1	1	1	...	...	...	...
43	1	...	...	...	...	1	1	1	1	...	...	...	...
44	1	...	...	...	...	1	1	1	1	...	...	...	...
45	1	...	...	...	...	1	...	1	1	...	...	...	...
46	1	...	...	...	...	...	...	...	...	...	...	...	...
47	1	...	...	...	...	...	...	...	...	...	...	...	...
48	1	...	...	...	...	...	...	...	...	...	...	...	...
49	1	...	...	...	...	...	...	...	...	...	...	...	...

§ For 12-in. garrison only.
‖ For 10-in. barbette, mark III.
** Mark II only.
†† Mark II* only.
‡‡ Discontinued for open emplacements, *see* L. of C. 6543.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Plates, covershield, steel†, No. XIII	...	1	...	...	...	...	...	1
,, XIV	...	1	...	...	...	...	...	2
,, XV	...	1	...	...	...	...	...	3
,, XVI	...	1	...	...	...	...	...	4
,, XVII	...	1	...	...	...	...	...	5
cover, box, guard, gear traversing, with screws	...	2	...	...	...	...	...	6
foot, left, inner, front	...	...	...	...	...	...	...	7
rear	...	...	...	...	...	...	...	8
outer, front	...	...	...	...	...	...	...	9
rear	...	...	...	...	...	...	...	10
...	...	...	...	...	...	...	...	11
front	...	1	...	...	...	...	...	12
rear...	...	1	...	...	...	...	...	13
right, inner	...	...	...	...	...	...	...	14
outer, front	...	...	...	...	...	...	...	15
rear	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	17
front	...	1	...	...	...	...	...	18
rear	...	1	...	...	...	...	...	19
manhole	...	2	...	...	...	...	...	20
indicator, metal, with screws ... rod, connecting, levers, adjusting	1	...	...	...	...	...	...	21
pointer, adjusting, piston rod	2	...	...	...	...	...	...	22
inscription, metal, with screws ...	1	1	1	1	1	1	1	23
instruction, metal, with screws ... recoil cylinder	...	1	...	...	...	...	...	24
lowering pump	...	1	...	...	...	...	...	25
raising valve	...	1	...	...	...	...	...	26
manhole, shield	...	2	...	...	...	...	...	27
packing, plate yard scale, metal, with screws	...	1	...	...	...	...	...	28
pivot, with bolts	...	...	1	...	...	...	...	29
securing, axles, roller, iron, with screws	...	...	...	...	...	14	10	30
yard scale, elevation indicator, metal, with screws...	...	1	...	...	...	...	...	31
Plugs, emptying hole, hydraulic buffer...	...	...	...	...	...	...	...	32
filling ,, ,, ,, No. 5	2	...	...	...	...	...	...	33
,, 6	...	...	...	...	...	...	...	34
,, 7	...	...	...	2	2	...	...	35
,, 8	...	...	...	...	...	...	...	36
,, 9	...	...	...	...	...	...	...	37
,, 21	...	...	...	...	...	2	2	38
metal, hole, derrick, pump, running back, with chain	...	...	...	...	...	...	1	39
steel cylinder, left	...	...	...	...	...	...	...	40
right	...	...	...	...	...	...	...	41
Pointers, adjusting, piston rod, steel, with stud and nuts	2	...	...	...	...	...	...	42
arc, elevating, metal, with stud, collar, and nut	...	...	...	...	...	...	...	43
arc traversing, steel ...	...	2§	2§	...	...	...	...	44
with metal bracket and screws, No. 1	...	...	...	...	...	...	...	45
,, 3	...	...	...	...	...	...	...	46
,, 4	...	...	...	...	...	...	...	47
Pump, running back	...	...	...	1	1	1	1	48
Racks, brake, iron	1	...	...	...	...	...	...	49

¶ *See* note ¶ page 376.

† Discontinued for open emplacements, *see* L. of C. 6543.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV. & VI. guns.		Mark V. gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II. and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	1	...	...	...	...	...	...	...	...	...	...	...	...
2	1	...	...	...	...	...	...	...	...	...	...	...	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...
4	1	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...
6	2	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	1	1	...	1	...	...	...	...
8	...	...	...	...	...	1	1	...	1	...	...	...	...
9	...	...	...	...	...	...	1	...	1	...	...	...	...
10	...	...	...	...	...	...	1	...	1	...	...	...	...
11	...	...	...	...	...	1	...	...	...	...	...	...	...
12	1	...	...	...	...	...	...	...	...	...	...	...	...
13	1	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	1	1	...	1	...	...	...	...
15	...	...	...	...	...	...	1	...	1	...	...	...	...
16	...	...	...	...	...	...	1	...	1	...	...	...	...
17	..	...	...	...	...	1	...	...	...	...	...	...	...
18	1	...	...	...	...	...	...	...	...	...	...	...	...
19	1	...	...	...	...	...	...	...	...	...	...	...	...
20	2	...	...	...	...	1	1	...	1	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	1	1	1	1	1	1	1	1	1	1	1	...	...
24	1	...	...	...	...	1	1	1	1	...	...	...	...
25	1	...	...	...	...	1	1	1	1	...	...	...	...
26	1	...	...	...	...	1	1	1	1	...	...	...	...
27	2	...	...	...	...	1	1	1	1	...	...	...	...
28	1	...	...	...	...	1	1	1	1	...	...	...	...
29	...	1	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	14	...	...	...	...	...	...	...	...	4
31	1	...	...	...	...	1	1	1	1	...	...	...	...
32	...	...	...	...	1	...	...	...	...	2	1	...	1
33	...	...	...	...	...	...	...	...	...	...	...	...	2
34	...	...	...	...	...	...	...	...	...	2	...	...	2
35	...	...	1	...	...	...	...	...	...	...	...	...	2‡
36	...	...	...	...	...	...	...	...	...	...	1	...	1
37	...	...	..	...	1	...	...	...	...	...	...	...	1
38	...	...	...	2	...	...	...	...	...	...	...	...	2
39	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	1	...	...	...
41	...	...	...	...	...	...	...	...	...	1	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...	1	...	...	...
44	2§	2§	...	...	...	...	...	...	...	2§	1	...	...
45	...	...	...	...	...	...	...	1	...	...	...	...	...
46	...	...	...	...	...	1	...	...	...	...	...	...	...
47	...	...	...	...	...	...	1	...	...	...	...	...	...
48	...	...	1	1	...	...	...	...	...	...	...	...	...
49	...	...	...	...	...	...	...	...	...	...	...	...	...

‡ 1 for 9·2-in. barbette, Mark I and IA.
§ 1 left and 1 right.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I.		Mark II.	Mark III.	
				C.	D.			
Rail, hand, sighting, platform, iron	...	1	...	...	...	...	...	1
Rams, controlling	...	...	...	2	2	..	...	2
Rings leather-packing, hydraulic buffer, metal	...	...	...	2	2	...	...	3
Rings packing, hydraulic buffer, leather, L section	2	...	...	...	...	2	...	4
Rings packing, hydraulic buffer, leather, U ,,	...	...	...	2	2	...	...	5
Rings roller, steel	...	1	...	...	...	...	...	6
Risers, sighting platform, wood	...	...	...	...	...	...	...	7
Rods connecting, lever, adjusting, iron	1	...	...	...	...	...	...	8
Rods piston, steel, with nuts	...	...	...	...	...	...	2	9
Rollers carriage —	...	...	...	...	...	...	10	10
Rollers carriage No. 1	14	...	...	...	...	...	...	11
,, ,, 6	...	...	...	...	...	...	...	12
,, ,, 7	...	...	...	...	...	...	...	13
,, ,, 8	...	...	...	10	10	...	...	14
,, ,, 9	...	...	...	...	...	...	...	15
,, ,, 10	...	20	...	...	...	...	...	16
,, ,, 11	...	...	...	...	...	...	...	17
,, ,, 12†	...	...	...	...	...	...	...	18
,, ,, 21	...	...	...	...	...	6	...	19
,, ,, 22	...	...	...	...	...	8	...	20
Rollers guide, lanyards firing and cocking, metal	...	2	...	...	...	...	...	21
Screws lubricating $\frac{5}{16} \times \frac{1}{2}$-in. metal	...	...	...	...	...	..	...	22
Screws lubricating $\frac{3}{8} \times \frac{1}{2}$,, ,,	...	...	...	...	...	...	...	23
Screws, set fixing cylinder	...	...	...	...	...	...	...	24
Shackles, lifting, iron, with pin, collar and key	...	...	...	...	...	4	...	25
Shields, overhead, steel, with connecting plates	...	1	...	...	...	...	...	26
Sockets, shield pillars —	...	8	...	...	...	...	...	27
Sockets, shield pillars, bottom	...	...	...	...	...	...	...	28
Sockets, shield pillars, top, inside, left, front	...	...	...	...	...	...	...	29
,, ,, ,, inside, left, rear	...	...	...	...	...	...	...	30
,, ,, ,, inside, right, front	...	...	...	...	...	...	...	31
,, ,, ,, inside, right, rear	...	...	...	...	...	...	...	32
,, ,, ,, outside, left, front	...	...	...	...	...	...	...	33
,, ,, ,, outside, left, rear	...	...	...	...	...	...	...	34
,, ,, ,, outside, right, front	...	...	...	...	...	...	...	35
,, ,, ,, outside, right, rear	...	...	...	...	...	...	...	36
,, ,, ,, —	...	...	...	...	...	...	...	37
Spindle, ladder hinge, sighting platform; steel with collars and split keys	...	...	...	...	...	...	...	38
Spindles, rollers guide, lanyards firing and cocking, steel	...	1	...	...	...	...	...	39
Springs, disc No. 11	...	80	...	...	...	...	...	40
,, ,, 12	...	...	...	...	...	...	...	41
,, ,, 13	...	...	...	...	...	...	...	42
Stages, side, with bolts and screws, left	...	...	1	...	...	...	...	43
Stages, side, with bolts and screws, right	...	...	1	...	...	...	...	44
Stanchions, handrail, sighting platform; iron, with bolts or screws	...	3	...	...	...	...	...	45
Standards, guide, rollers with bolts, lanyards firing and cocking, left	...	1	...	...	...	...	...	46
Standards, guide, rollers with bolts, lanyards firing and cocking, right	...	1	...	...	...	...	...	47
Stays, ladder, sighting platform, inner, steel, with bolts	...	...	...	...	...	...	...	48
Stays, ladder, sighting platform, outer ,, ,, ,,	...	...	...	...	...	...	...	49

¶ *See note* ¶ page 376.

† Per carriage.

‡ 2 per fort or battery of 10 guns or less for 8-in. barbette.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	1	...	...	...	...	...	...	2	...	...	...
3	...	...	1	...	1	...	...	...	...	2	1	...	...
4	...	...	...	2	...	...	...	...	...	2	...	...	2†
5	...	...	1	...	1	...	...	...	...	...	1	...	2†‡
6	1	...	...	...	...	1	1	...	1	...	...	...	...
7	3	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	2
10	...	...	...	...	...	...	...	...	...	...	8	...	1§
11	...	...	...	...	...	...	...	...	...	...	...	...	1
12	...	...	...	...	...	16	...	...	...	...	...	...	...
13	...	...	...	...	...	...	16	...	16	...	...	...	...
14	...	...	10	...	...	...	...	...	...	...	...	...	...
15	18	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	8	...	...	...	...	...	...	...	...
18	...	...	...	...	...	16	...	...	...	...	...	...	...
19	...	...	...	6	...	...	...	...	...	...	...	...	1
20	...	...	...	8	...	...	...	...	...	...	...	...	1
21	2	...	...	...	...	2	2	...	2	...	...	...	...
22	...	...	...	...	...	...	...	...	...	5	...	...	2
23	...	...	...	...	...	...	...	...	...	...	14	...	...
24	...	...	...	...	...	...	...	...	...	2	...	...	...
25	...	...	...	4	...	...	...	...	...	...	...	...	...
26	1	...	...	...	...	1	1	1‖	1	...	...	...	...
27	8	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	4	...	...	...	...	...	...	...
29	...	...	...	...	...	1	...	...	...	...	...	...	...
30	...	...	...	...	...	1	...	...	...	...	...	...	...
31	...	...	...	...	...	1	...	...	...	...	...	...	...
32	...	...	...	...	...	1	...	...	...	...	...	...	...
33	...	...	...	...	...	1	...	...	...	...	...	...	...
34	...	...	...	...	...	1	...	...	...	...	...	...	...
35	...	...	...	...	...	1	...	...	...	...	...	...	...
36	...	...	...	...	...	1	...	...	...	...	...	...	...
37	...	...	...	...	...	...	2	...	2	...	...	...	...
38	1	...	...	...	...	...	...	...	...	...	...	...	...
39	1	...	...	...	...	1	1	...	1	...	...	...	...
40	72	...	...	...	...	...	...	...	...	...	...	...	10
41	...	...	...	...	...	48	...	56	...	...	...	...	10
42	...	...	...	...	...	...	56	...	56	...	...	...	10
43	...	1	...	...	...	...	...	...	...	...	...	...	...
44	...	1	...	...	...	...	...	...	...	...	...	...	...
45	3	...	...	...	...	...	...	...	...	...	...	...	...
46	1	...	...	...	...	1	1	...	1	...	...	...	...
47	1	...	...	...	...	1	1	...	1	...	...	...	...
48	1	...	...	...	...	...	...	...	...	...	...	...	...
49	1	...	...	...	...	...	...	...	...	...	...	...	...

§ 1 per fort or battery of 10 guns or less for 10-in. Mark III.

‖ When so fitted.

B.L. Carriages—Component

] 7489

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Stays, tensile steel, left	...	...	...	...	...	...	...	1
Stays, pipe, connecting, iron, with bolts and nuts	2	...	...	...	...	...	...	2
Stays, pillar, iron, with bolts and keys	...	8	...	...	...	...	...	3
Step, sighting, rear	...	1	...	...	...	...	..	4
Stops, buffer, with bolts, left	...	...	...	...	...	...	...	5
Stops, buffer, with bolts, right	...	...	...	...	...	...	...	6
Studs, capsquare, with nuts and split key	...	...	4	...	...	...	...	7
Trucks, steel, —	...	...	...	...	...	...	...	8
Trucks, steel, front, with spur wheel	...	...	2	...	...	...	...	9
Trucks, steel, rear	...	...	2	...	...	...	...	10
Valves, hydraulic buffer, metal	2	...	...	2	2	...	...	11
Valves, draw off, hydraulic buffer	1	...	...	2	2	...	...	12
Washers, packing, hydraulic buffer, leather, set of 4 ... sets	1	...	...	...	...	...	...	13
Washers, packing, hydraulic buffer, leather, ,, 5 ... ,,	...	...	...	...	...	...	..	14
Washers, packing, hydraulic buffer, leather, ,, 6 ... ,,	...	...	...	...	...	...	...	15
Washers, packing, hydraulic buffer, leather, ,, 12 ... ,,	...	...	...	...	...	1	...	16
Washers, packing, hydraulic buffer, leather, ,, 13 ... ,,	...	...	...	1	1	...	...	17
Washers, packing, pipe, connecting, leather, ,, 2 ... ,,	...	...	...	1	1	...	...	18
Washers, packing, pipe, connecting, leather, ,, 6 ... ,,	1	...	...	...	...	...	...	19
Washers, packing, pipe, connecting, leather, ,, 2 ... ,,	...	...	...	...	...	1	...	20
CYLINDERS, RECOIL.								
Bolt, connecting ram to crosshead, with nut and key	...	1	...	...	...	...	...	21
Brackets, with screws, guide, plunger, lowering pump, iron	...	1	...	...	...	...	...	22
Brackets, with screws, guide, rack, raising valve	...	1	...	...	...	...	...	23
Brackets, with screws, raising valve	...	1	...	...	...	...	...	24
Bushes, bottom, metal	...	...	1	...	...	...	...	25
Caps, recoil valve, metal	...	...	...	...	...	...	...	26
Chambers, air, left	...	...	1	...	...	...	...	27
Chambers, air, right	...	...	1	...	.	...	...	28
Connections, delivery pipe, lowering pump	...	...	...	...	...	...	...	29
Connections, suction pipe, lowering pump	...	...	...	...	...	...	...	30
Covers, air chamber	...	...	...	...	...	...	...	31
Covers, recoil cylinder, iron, with bolts	...	1	...	...	...	...	...	32
Covers, recoil valves, metal	...	6	...	...	...	...	...	33
Covers, springs, ram	...	1	...	...	...	...	...	34
Cylinders, recoil, steel	...	1	1	...	...	...	...	35
Gauges, pressure	...	...	1	...	...	...	...	36
Gauges, test, with weights	...	...	1	...	...	...	...	37
Gauges, water level	...	...	1	...	...	...	...	38
Glands, metal, —	...	1	1	...	...	...	..	39
Glands, metal, inner	...	...	...	...	...	...	...	40
Glands, metal, outer	...	...	...	...	...	...	...	41
Glasses, gauge (sets of 6)	...	...	1	...	...	...	...	42
Handles, valve, filling, iron	...	...	...	...	...	...	...	43
Insertion, jointing	...	...	...	...	...	...	...	44
Packing, hydraulic, — ... lb.	...	...	...	...	...	...	..	45
Packing, hydraulic, $\frac{5}{8}$-in. square, length of 50 ins. ... lengths	...	...	...	...	...	...	...	46
Packing, hydraulic, $\frac{5}{8}$-in. square, ,, ,, 56 ,, ... ,,	...	2	...	...	...	...	...	47
Packing, hydraulic, $\frac{7}{8}$-in. ,, ,, ,, 30 ,, ... ,,	...	...	...	...	...	...	...	48

¶ *See* note ¶ page 376. † When so fitted. § Per carriage.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...
3	8	...	...	...	...	8	8	8†	8	...	...	...	...
4	1	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	1	...	...	...	...	...	...	...	...
6	...	...	...	...	1	...	...	...	...	...	...	...	...
7	...	4	...	...	...	...	...	...	...	...	...	...	..
8	...	...	...	...	...	...	...	4	...	...	...	...	...
9	...	2	...	...	...	...	...	...	...	...	...	...	...
10	...	2	...	...	...	...	...	...	...	...	...	...	...
11	...	...	1	...	1	...	...	...	...	2	1	...	...
12	...	...	1	...	...	...	...	...	...	...	...	...	1‡
13	...	...	...	...	1	...	...	...	...	...	...	...	2§‖
14	...	...	...	...	...	...	...	...	...	...	1	...	2§
15	...	...	1	...	...	...	...	...	...	1	...	...	2§
16	...	...	...	1	...	...	...	...	...	...	...	...	2§
17	...	...	...	...	...	...	...	...	...	...	...	...	2§
18	...	...	...	...	...	...	...	...	...	...	...	...	1§
19	...	...	...	...	...	...	...	...	...	...	...	...	1§
20	...	...	...	1	...	...	...	...	...	...	...	...	1§
21	1	...	...	...	...	...	...	...	...	...	...	...	...
22	1	...	...	...	...	1	1	...	1	...	...	...	...
23	1	...	...	...	...	1	1	...	1	...	...	...	...
24	1	...	...	...	...	1	1	...	1	...	...	...	...
25	...	1	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	1	1	...	1	...	...	...	1
27	...	1	...	...	...	...	...	...	...	...	...	...	...
28	...	1	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	1	...	...	...	...	...
30	...	...	...	...	...	...	...	1	...	...	...	...	1
31	...	...	...	...	...	...	...	...	...	...	...	...	...
32	1	...	...	...	...	...	...	...	...	...	...	...	...
33	4	...	...	...	...	...	...	...	...	...	...	...	1
34	1	...	...	...	...	...	...	...	...	...	...	...	...
35	1	1	...	...	...	1	1	1	1	...	...	...	...
36	...	1	...	...	...	...	...	...	...	...	...	...	...
37	...	1	...	...	...	...	...	...	...	...	..	...	...
38	...	1	...	...	...	...	...	...	...	...	...	...	...
39	1	1	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	1	1	1	1	...	...	...	...
41	...	...	...	...	...	1	1	1	1	...	...	...	...
42	...	1	...	...	...	...	...	1	...	...	...	...	...
43	...	...	...	...	...	...	...	1	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...	...	...	...	**
45	...	...	...	...	...	...	...	3	...	...	...	...	3
46	2	...	...	...	...	...	...	...	...	...	...	...	2§
47	...	...	...	...	...	...	...	...	...	...	...	...	2§
48	...	...	...	...	...	2	2	...	2	...	...	...	2§

‖ 2 per fort or battery of 10 guns or less for 8-inch barbette.

** 14 lb. for 9·2-in. and 10-in. E. and A. ‡ For 12 inch garrison.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I.		Mark II.	Mark III.	
				C.	D.			
Pipes, copper, connecting, pump and air vessel (set of 2) ... sets	...	...	1	...	...	...	...	1
Pipes, copper, connecting, air vessels ... sets	...	...	1	...	...	...	...	2
Plates ... guide, rod, connecting, with screws	...	...	2	...	...	...	...	3
Plates ... securing, gland, iron ,,	...	...	...	...	...	...	...	4
Plugs, air escape ... steel	...	1	...	...	...	...	...	5
Plugs, air chambers, ordinary ... metal	...	9	...	...	...	...	...	6
Plugs, air chambers, pump, connection ,,	...	1	...	...	...	...	...	7
Plugs, air chambers, for valve, draw off ,,	...	1	...	...	...	...	...	8
Plugs, air chambers, ordinary ... steel	...	...	...	...	...	...	...	9
Plugs, air chambers, pump, connection ,,	...	...	...	...	...	...	...	10
Plugs, air chambers, for valve, draw off ,,	...	...	...	...	...	...	...	11
Plugs, bottom ...	...	...	...	...	...	...	...	12
Plugs, centre ... metal	...	...	...	...	...	...	...	13
Rams, iron, with key...	...	...	...	...	...	...	...	14
Rams, metal —	...	1	...	...	...	...	...	15
Rams, metal, with nut and screw	...	...	...	...	...	...	...	16
Rams, steel	...	...	1	...	...	...	...	17
Rings, gland, bottom, P.B. ...	...	1	...	...	...	...	...	18
Rings, ,, top ,, ...	...	1	...	...	...	...	...	19
Rings, metal, leather, packing	...	...	...	...	...	...	...	20
Rings, india-rubber, for gauge glass (set of 6)... sets	...	...	1	...	...	...	...	21
Rings, packing, leather, L section	...	...	1	...	...	...	...	22
Rings, packing, leather, U section	...	...	1	...	...	...	...	23
Rings, filling in gland, steel	...	1	...	...	...	...	...	24
Rods, connecting, steel, with cap, bolts and lubricating tube	...	...	1	...	...	...	...	25
Springs, disc, No. 19	...	15	...	...	...	...	...	26
Springs, disc, ,, 20	...	...	...	...	...	...	...	27
Springs, disc, ,, 21	...	...	...	...	...	...	...	28
Springs, disc, ,, 22	...	...	...	...	...	...	...	29
Trunnions, steel, recoil, cylinder, with screws ...	...	1	...	...	...	...	...	30
Tubes, draw off	...	1	...	...	...	...	...	31
Tubes, india-rubber, valve release, with coupling	...	...	1	...	...	...	...	32
Valves, metal, blow off	...	...	1	...	...	...	...	33
Valves, metal, by-pass, with spindle and hand wheel	...	...	1	...	...	...	...	34
Valves, metal, clack ...	...	...	...	...	...	...	...	35
Valves, metal, draw off	...	1	...	...	...	...	...	36
Valves, metal, filling ...	...	1	...	...	...	...	...	37
Valves, metal, pump, connecting, self-acting...	...	...	2	...	...	...	...	38
Valves, metal, recoil —	...	6	...	...	...	...	...	39
Valves, metal, recoil, with connecting pipe, left	...	...	1	...	...	...	...	40
Valves, metal, recoil, with connecting pipe, right	...	...	1	...	...	...	...	41
Valves, metal, stop, pump, lowering, delivery	...	1	...	...	...	...	...	42
Valves, metal, stop, pump, lowering, suction	...	1	...	...	...	...	...	43
Valves, metal, water level ...	...	1	...	...	...	...	...	44
Washers, packing, cylinder recoil, leather, set of 3 ... sets	...	...	...	...	...	...	...	45
Washers, packing, cylinder recoil, lead, ,, 5 ... ,,	...	...	...	...	...	...	...	46
Washers, packing, cylinder recoil, leather, 1	...	...	...	...	...	...	...	47
Washers, packing, cylinder recoil, lead, set of 16 ... sets	...	...	...	...	...	...	...	48

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¶ *See* note ¶ page 376.
‡ 6-in. disappearing, Mark II.
† Per carriage.
§ 6-in. disappearing, Mark II*.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing		Barbette.		Barbette.	Marks IV & VI gun.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	1	...	...	...	...	...	...	...	...	...	...	1
2	...	1	...	...	...	...	...	...	...	...	...	...	1
3	...	2	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	1	...	...	...	...	...
5	1	...	...	...	...	1	1	...	1	...	...	...	1†
6	9	...	...	...	...	...	...	...	...	...	...	...	1
7	1	...	...	...	...	...	...	...	...	...	...	...	...
8	1	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	9	8	...	8	...	...	...	1
10	...	...	...	...	...	1	1	...	1	...	...	...	...
11	...	...	...	...	...	1	1	...	1	...	...	...	...
12	...	...	...	...	...	...	...	1	...	...	...	...	...
13	1	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	1	...	...	...	...	...
15	1	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	1	1	...	1	...	...	...	...
17	...	1	...	...	...	...	...	...	...	...	...	...	...
18	1	...	...	...	...	1	1	...	1	...	...	...	1
19	1	...	...	...	...	1	1	...	1	...	...	...	...
20	...	...	...	...	...	...	...	1	...	...	...	...	...
21	...	1	...	...	...	...	...	...	...	...	...	...	1
22	...	1	...	...	...	...	...	...	...	...	...	...	2†
23	...	1	...	...	...	...	...	1	...	...	...	...	2†
24	1	...	...	...	...	1	1	...	1	...	...	...	...
25	...	1	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	2†
27	15	...	...	...	...	...	...	...	...	...	...	...	2†
28	...	...	...	...	...	13‡	13	...	13	...	...	...	2†
29	...	...	...	...	...	13§	...	...	...	...	...	...	2†
30	1	...	...	...	...	...	...	...	...	...	...	...	...
31	1	...	...	...	...	1	1	...	1	...	...	...	...
32	...	1	...	...	...	...	...	...	...	...	...	...	...
33	...	1	...	...	...	...	...	...	...	...	...	...	...
34	...	1	...	...	...	...	...	...	...	...	...	...	1
35	...	...	...	...	...	...	...	1	...	...	...	...	...
36	1	...	...	...	...	1	1	1	1	...	...	...	...
37	1	...	...	...	...	1	1	1	1	...	...	...	1
38	...	2	...	...	...	...	...	...	...	...	...	...	...
39	4	...	...	...	...	1	1	2	1	...	...	...	1
40	...	1	...	...	...	...	...	...	...	...	...	...	...
41	...	1	...	...	...	...	...	...	...	...	...	...	...
42	1	...	...	...	...	1	1	1	1	...	...	...	...
43	1	...	...	...	...	1	1	1	1	...	...	...	...
44	1	...	...	...	...	1	1	1	1	...	...	...	1
45	...	...	...	...	...	...	...	1	...	...	...	...	2†
46	...	...	...	...	...	...	...	1	...	...	...	...	...
47	...	...	...	...	...	...	1	...	1	...	...	...	1†
48	...	...	...	...	...	...	1	...	1	...	...	...	‖

‖ In putting forward requisitions, lead of section ·4-in. × ·2-inch should be demanded by the foot run, and made into washers locally

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
	Garrison.	Disappearing.		Barbette.				
		Mark I.	Mark II.	Mark I.		Mark II.	Mark III.	
				C.	D.			
Washers, packing, cylinder recoil, leather, 1	...	...	...	...	...	...	...	1
lead, set of 17 ... ... sets	...	...	...	...	...	...	...	2
leather, 1	...	...	...	...	...	...	...	3
lead, set of 25 ... ... sets	...	...	...	..	...	...	...	4
leather, 1	...	1	...	...	...	...	...	5
lead, set of 28 ... ... sets	...	1	...	...	...	...	...	6
leather, ,, 33 ... ... ,,	...	...	1	...	...	...	...	7
GEAR, ELEVATING.								
Arcs, elevating, left	...	1	1	...	...	...	...	8
right	...	...	1	...	...	...	...	9
right	...	1	...	...	...	...	...	10
steel	...	...	...	1	1	1	1	11
Bands, friction, brake drum, with pin collar and split key	...	1	...	...	...	...	...	12
Blocks, driving, iron, friction ring	...	1	...	...	...	...	...	13
Bolts, cramp, brake	...	...	...	...	...	...	...	14
jamming, brake with nut	...	...	...	1	1	...	...	15
Cones, friction, brake, drum, steel with nuts	...	1	...	...	...	...	..	16
spur wheel, with key	...	...	2	...	...	...	...	17
steel	...	...	...	...	...	...	...	18
metal	...	...	...	...	...	...	...	19
plain steel	...	...	...	...	...	1	1	20
with boss, steel	...	...	...	...	...	1	1	21
Cotters, wheel, hand elevating, steel	...	...	...	...	...	...	..	22
Covers ... pinions and wheel, rear of slide, metal ...	...	...	...	...	...	...	...	23
wheel, spur and pinion, iron, with screws ...	...	...	2	...	...	...	...	24
Cramps, brake	...	...	...	...	...	...	...	25
Discs, metal, graduated indicator	...	...	...	...	...	...	1	26
Drums, brake, iron	...	1	...	...	...	...	...	27
Guards, disc, graduated, indicator	...	...	...	...	...	...	1	28
worm wheel, metal, in 2 parts	...	...	...	...	...	1	1	29
bevel pinions, front, metal, with screws ...	...	...	...	...	...	...	...	30
rear ,, ,, ,, ...	...	...	...	...	...	...	...	31
spur wheels, steel, with cover plate, packing collars and screws	...	...	...	...	...	1	...	32
worm wheel, metal, with screws	...	...	...	...	...	...	...	33
Guards, wheel, spur and pinion ... ... —	...	...	...	...	...	...	...	34
metal, with bolts	..	...	...	1	1	...	...	35
Handles, brake, iron	...	...	...	1	1	...	...	36
Indicators, metal, pointer	...	...	...	...	...	...	...	37
Keys, split, round, loop head, cotter, wheel, hand elevating, ·25-in. × 1·125-in.	...	...	...	...	...	...	...	38
handle, wheel, hand elevating, ·12-in. × 1·25-in.	...	...	...	...	...	...	...	39
spindle worm, elevating, ·25-in. × 3·0-in.	...	...	...	...	...	...	...	40
·312 ,, × 3·0 ,,	...	...	...	...	...	...	...	41
Nuts, adjusting, spring, equalizing brake iron	...	2	...	...	...	...	...	42
Pawls, band, brake, iron	...	1	...	...	...	...	...	43

¶ *See* note ¶ page 376. † Per carriage.

‡ For 8-inch and 10-inch barbette Mark III. only.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II. and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	1	...	...	...	...	...	...	1†
2	...	...	...	...	...	1	...	...	...	...	...	...	§
3	1	...	...	...	...	...	...	...	...	...	...	...	1†
4	1	...	...	...	...	...	...	...	...	...	...	...	§
5	...	...	...	...	...	...	...	...	...	...	...	...	1†
6	...	...	...	...	...	...	...	...	...	...	...	...	§
7	...	1	...	...	...	...	...	...	...	...	...	...	2†
8	1	1	...	...	...	1	1	1	1	...	...	...	...
9	...	1	...	...	...	...	...	...	...	...	...	...	...
10	1	...	...	...	...	1	1	1	1	...	...	...	...
11	...	...	1	1	1	...	...	...	...	1	...	1**	1‡
12	1	...	...	...	...	1	1	1	1	...	...	...	...
13	1	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	1	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...
16	1	...	...	...	...	1	1	1	1	...	...	...	...
17	...	2	...	...	...	...	...	...	...	...	...	...	1
18	...	...	...	...	...	1	1	1	1	...	...	...	...
19	...	...	...	...	1	...	...	...	...	...	...	...	...
20	...	...	1	...	...	...	...	...	...	...	...	...	...
21	...	...	1	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	..	...	...	1	...	...	...
23	...	...	...	...	...	...	...	...	...	1	...	...	...
24	...	2	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	1	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	1	...	...	...	...	1	1	1	1	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	1	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	1	...
31	...	...	...	...	...	...	...	...	...	...	...	1	...
32	...	...	...	1	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	...	...	...	1	...	...	...	...	1	...	...	...
35	...	...	1	...	...	...	...	...	...	...	...	...	...
36	...	...	1	...	1	...	...	...	...	...	...	...	...
37	...	2	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	4‖
39	...	...	...	...	...	...	...	...	...	...	...	...	4‖
40	...	...	...	...	...	...	...	...	...	...	...	...	4‖
41	...	...	...	...	...	...	...	...	...	...	...	...	4‖
42	2	...	...	...	...	...	...	...	...	...	...	...	...
43	1	...	...	...	...	1	1	1	1	...	...	...	...

§ In putting forward requisitions, lead of section ·4-in. × ·2-inch should be demanded by the foot run, and made into washers locally.

‖ For 6-inch Vavasseur Central Pivot only. ** 1 spare per district in A.O. charge.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disap-pearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Pinions, elevating, rear of slide	...	...	...	...	...	...	...	1
Pinions, elevating, 1st motion, with spindle, collar and key	...	...	2	...	...	...	...	2
Pinions, elevating, 2nd motion, with spindle, collar and key	...	...	2	...	...	...	...	3
Pinions, elevating, steel, with spindle, fricton rings, collar, nuts, and disc spring	...	...	...	...	...	...	...	4
Pinions, elevating, steel, with spindle, disc spring and nuts	...	...	...	...	...	1	1	5
Pinions, 3rd motion	...	..	2	...	...	...	...	6
Pinions, spur, metal, 1st motion shaft, 11 teeth	...	...	...	...	...	...	...	7
Pinions, spur, steel, 1st ,, ,, 13 ,,	...	1	...	...	...	...	...	8
Pinions, spur, steel, 2nd ,, ,, 10 ,,	...	...	...	...	...	...	...	9
Pinions, spur, steel, 2nd ,, ,, 15 ,,	...	1	...	...	...	...	...	10
Pinions, spur, steel, 3rd ,, ,, 15 ,,	...	2	...	...	...	...	...	11
Pinions, bevel, 15 teeth, steel	...	...	...	...	...	2	2	12
Pinions, bevel, 15 teeth, for bearing; steel	...	...	...	...	...	2	2	13
Pinions, bevel, 15 teeth, 1st motion, shaft, steel	...	...	...	...	...	...	...	14
Pinions, bevel, 15 teeth, 2nd ,, ,, ,,	...	...	...	...	...	...	...	15
Pinions, bevel, 15 teeth, worm, shaft, steel	...	...	...	...	...	...	...	16
Pinions, steel, with spindle	...	...	...	...	...	...	...	17
Pinions, steel, with spindles, 1st motion, elevating, with collar, nut, and key	...	...	...	...	...	...	...	18
Pinions, steel, with spindles, 1st motion, with nut and split key	...	...	...	1	1	...	...	19
Pinions, steel, with spindles, 2nd motion, with friction rings, spring, washers, nuts, and split keys	...	...	...	1	1	...	...	20
Pinions, steel, with spindles, 2nd motion, elevating, with nut and metal ring	...	...	...	...	...	...	...	21
Pins, elevating arc, steel, with collar and split key	...	2	...	...	...	...	...	22
Plates, friction, steel, spur wheel	...	1	...	...	...	...	...	23
Plates, metal	...	...	...	...	...	...	1	24
Plates, yard scale, left	...	...	1	...	...	...	...	25
Plates, elevation indicator, right	...	...	1	...	...	...	...	26
Plugs, jamming, brake, metal	...	...	...	1	1	...	...	27
Plugs, jamming, brake, metal, ·74-in. thick	...	...	...	...	...	...	...	28
Plugs, jamming, brake, metal, ·86 ,, ,,	...	...	...	...	...	...	...	29
Pointers, metal, indicator, with bolts	...	...	...	...	...	...	...	30
Pointers, metal, indicator	...	...	...	...	...	...	1	31
Pointers, steel, arc, elevating	...	1	...	...	...	...	...	32
Pointers, steel, plate, yard	...	1	...	...	...	...	...	33
Pointers, steel, scale with screws, left	...	...	1	...	...	..	...	34
Pointers, steel, scale with screws, right	...	...	1	...	...	...	...	35
Rings, friction, pinion, spindle, 2nd motion, metal, thick	...	...	...	1	1	...	...	36
Rings, friction, pinion, spindle, 2nd motion, metal, thin	...	...	...	4	4	...	...	37
Rings, friction, pinion, spindle, 2nd motion, steel, large	...	...	...	1	1	...	...	38
Rings, friction, pinion, spindle, 2nd motion, steel, small, thick	...	...	...	1	1	...	...	39
Rings, friction, pinion, spindle, 2nd motion, steel, small, thin	...	...	...	3	3	...	...	40
Rings, friction, manganese, bronze	...	...	...	...	...	...	...	41
Rings, friction, steel, thick	...	...	...	...	...	...	...	42
Rings, friction, steel, thin	...	...	...	...	...	...	...	43
Rings, friction, wheel, spur, metal, thick	...	5	...	...	...	...	...	44
Rings, friction, wheel, spur, metal, thin	...	1	...	...	...	...	...	45
Rings, friction, wheel, spur, steel	...	5	...	...	...	...	...	46
Rods, connecting, iron, left	...	...	1	...	...	...	...	47
Rods, connecting, iron, right	...	...	1	...	...	...	...	48
Rods, elevating, left	...	...	...	...	...	...	...	49
Rods, elevating, right	...	...	...	...	...	...	...	50

¶ *See* note ¶ page 376. † In R.A. charge.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II. and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	2	...	...	...
2	...	2	...	...	...	...	...	...	...	...	...	...	...
3	...	2	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	1	1†
5	...	...	...	1	...	...	...	...	...	...	...	...	...
6	...	2	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	1	1	1	1	...	...	...	...
8	1	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	2	2	2	2	...	...	...	...
10	1	...	...	...	...	...	...	...	...	...	...	...	...
11	2	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	2	...	...	...	...	...	...	...	...	...
13	...	...	...	2	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	...	...	1	...
16	...	...	...	...	...	...	...	...	...	...	...	1	...
17	...	...	...	...	...	...	...	...	...	1	...	...	...
18	...	...	...	...	1	...	...	...	...	...	...	...	...
19	...	...	1	...	...	...	...	...	...	...	...	...	...
20	...	...	1	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	1	...	...	...	...	...	...	...	...
22	2	...	...	...	...	2	2	2	2	...	...	...	...
23	1	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	1	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	1	...	...	...	...	...	...	...	...
29	...	...	...	...	1	...	...	...	...	...	...	...	...
30	...	2	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...
32	1	...	...	...	...	1	1	1	1	...	...	...	...
33	1	...	...	...	...	1	1	1	1	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	1	...	...	...	...	...	...	...	...	...	1
37	...	...	4	...	...	...	...	...	...	...	...	...	2
38	...	...	1	...	...	...	...	...	...	...	...	...	1
39	...	...	1	...	...	...	...	...	...	...	...	...	1
40	...	...	3	...	...	...	...	...	...	...	...	...	2
41	...	...	...	...	...	...	...	...	...	4	4	...	2
42	...	...	...	...	...	...	...	...	...	2	2	...	1
43	...	...	...	...	...	...	...	...	...	3	3	...	1
44	5	...	...	...	...	...	...	...	...	...	...	...	...
45	1	...	...	...	...	...	...	...	...	...	...	...	...
46	5	...	...	...	...	...	...	...	...	...	...	...	...
47	...	1	...	...	...	...	...	...	...	...	...	...	} 1
48	...	1	...	...	...	...	...	...	...	...	...	...	
49	...	...	...	...	...	1	1	1	1	...	...	...	...
50	...	...	...	...	...	1	1	1	1	...	...	...	...

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.		Mark II.	Mark III.	
	Garrison.	Mark I.	Mark II.	C.	D.			
Rods, elevating, consisting of double and single eye, spring box, spring bolt, and set screw	...	2†	...	...	...	...	...	1
Screws jamming	...	...	1	...	...	...	...	2
Screws lubricating, thumb, $\frac{5}{16}$ inch, metal	...	...	...	...	...	...	...	3
Screws jamming, brake, iron	...	...	...	1	1	...	...	4
Shafts pinion, rear of slide, with key, washer, and pin, steel	...	...	...	...	...	...	...	5
Shafts 2nd motion, steel in 2 parts, with coupling, collar and keys	...	...	...	...	...	...	1	6
Shafts worm, steel	...	...	...	...	...	...	1	7
Shafts ,, ,, with collar, keys, and screw ...	...	...	...	...	...	1	...	8
Shafts 1st motion steel, with collars and nut ...	...	1	...	...	...	1	1	9
Shafts 1st motion with collar and key	...	...	...	...	...	...	...	10
Shafts 1st motion ,, ,, pin, and key ...	...	...	...	...	...	...	...	11
Shafts 1st motion ,, ,, nut, taper pins and key	...	...	...	...	...	...	...	12
Shafts 2nd motion with collars, keys, and nuts	...	...	...	...	...	...	...	13
Shafts 2nd motion with keys	...	1	...	...	...	...	...	14
Shafts 2nd motion steel, with collars and set screws ...	...	...	...	...	...	1	...	15
Shafts 3rd motion steel with keys	...	...	...	...	...	1	...	16
Shafts 3rd motion with keys and nuts	...	...	1	...	...	...	...	17
Shafts 3rd motion with nuts, caps, and pins	...	1	...	...	...	...	...	18
Shafts rod, connecting	...	...	1	...	...	...	...	19
Spindles worm, with collar and nut, steel	...	...	...	...	...	...	...	20
Spindles wheel at rear of slide, with nut and pin, steel	...	...	...	...	...	...	...	21
Spindles 1st motion, with collar and nut, steel ...	...	...	...	...	...	...	1	22
Springs, steel brake, drum...	...	1	...	...	...	...	...	23
Springs, steel cone, spur, —	...	...	...	...	...	...	...	24
Springs, steel wheel — ... ... pairs	...	...	6	...	...	...	...	25
Springs, steel disc No. 14	...	2	...	...	...	...	...	26
Springs, steel disc ,, 15	...	...	...	...	...	...	...	27
Springs, steel disc ,, 17	...	...	...	...	...	...	...	28
Springs, steel disc ,, 25	...	...	...	1	1	...	...	29
Springs, steel disc ,, 26	...	...	...	...	...	1	1	30
Springs, steel elevating arc, with bolts	...	2	...	...	...	...	...	31
Springs, steel elevating rod	...	2	...	...	...	...	...	32
Springs, steel friction cone	...	...	...	...	...	...	...	33
Springs, steel washer, spindle, elevating	...	...	...	...	...	...	...	34
Stops, handle, brake, iron	...	...	...	1	1	...	...	35
Studs, pawl band, brake, with nuts	...	1	...	...	...	...	...	36
Washers, spring, pinion, spindle	...	...	...	...	...	...	...	37
Wheels bevel, 30 teeth, steel...	...	...	...	...	...	...	...	38
Wheels hand, iron	...	2	2	1	1	1	1	39
Wheels elevating, rear of slide	...	...	...	...	...	...	...	40
Wheels spur 20 teeth, steel	...	...	...	...	...	1	...	41
Wheels spur 30 ,, ,, ...	...	...	...	...	...	1	...	42
Wheels spur 56 ,, metal	...	...	...	...	...	...	...	43
Wheels hand, metal, with handle	...	...	...	...	...	...	...	44
Wheels worm, metal	...	...	...	...	...	1	1	45
Wheels ,, manganese bronze	...	...	...	...	...	...	...	46

¶ *See* note ¶ page 376.
‡ 1 per district in A.O. Charge.
† 1 left and 1 right.
§ 1 per carriage.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	2†	...	...	...	...	...	...	...	...	...	...	...	...
2	...	1	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	8	...
4	...	...	1	...	1	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	1	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	...	...	...	...	...	1	...
8	...	...	...	1	...	...	...	...	...	...	...	...	...
9	1	...	...	1	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	1	...	...	...	...	...
11	...	...	...	...	...	1	1	...	1	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	1	1‡
13	...	...	...	...	...	1	1	1	1	...	...	...	1
14	1	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	1	...	...	...	...	...	...	...	...	...
16	...	...	...	1	...	...	...	...	...	...	...	...	...
17	...	1	...	...	...	...	...	...	...	...	...	...	...
18	1	...	...	...	...	...	...	...	...	...	...	...	...
19	...	1	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	1	...	...	...
21	...	...	...	...	...	...	...	...	...	1		...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...
23	1	...	...	...	...	1	...	1	...	...	...	...	1§
24	...	...	...	...	...	1	...	1	...	...	...	...	1§
25	...	6	...	...	...	...	...	...	...	...	...	...	3
26	2	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	3	...	3	...	...	...	1§
28	...	...	...	...	...	...	1	...	1	...	...	...	1§
29	...	...	1	...	...	...	...	...	...	...	...	...	2
30	...	...	...	1	...	...	...	...	...	...	...	...	...
31	2	...	...	...	...	...	...	...	...	...	...	...	...
32	2	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	1	...	...	...	...	...	...	...	1§
34	...	...	...	...	...	...	...	...	...	1	...	...	...
35	...	...	1	...	...	...	...	...	...	...	...	...	...
36	1	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	1	1	...	1‖
38	...	...	...	...	...	...	...	...	...	...	...	1	...
39	2	2	1	1	1	1	1	1	1	...	...	...	...
40	...	...	...	...	...	...	...	...	...	1	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	1	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	1	1	1	1	...	...	...	...
44	...	...	...	...	...	...	...	...	...	1	...	1	1**
45	...	...	...	1	...	...	...	...	...	1	...	...	...
46	...	...	...	...	...	...	...	...	...	...	...	1	...

‖ 2 for 6-in. barbette.
** 6-inch, Mark II, 1 per district in A.O. Charge.

B.L. Carriages—Component

	Components.	12-inch.	10-inch.						
			Disappearing.		Barbette.				
		Garrison.	Mark I.	Mark II.	Mark I. C.	Mark I. D.	Mark II.	Mark III.	
Wheels, spur	2nd motion	...	...	2	...	...	...	...	1
	2nd motion, shaft, 60 teeth	...	1	...	...	...	...	...	2
	3rd motion, shaft, 56 teeth	...	1	...	...	...	...	...	3
	cone friction	...	...	2	...	...	...	...	4
	30 teeth	...	...	...	...	...	...	...	5
	63 ,, steel	...	...	...	1	1	...	...	6
Worms, elevating		...	...	...	...	...	...	...	7
	GEAR, ELEVATION INDICATOR.								
Arcs, metal, with bolts		...	...	...	1	1	...	...	8
Bearing graduated discs, metal, with screws		...	...	...	...	...	...	...	9
Bracket, chain, drum, metal, with screws		...	...	...	...	...	...	...	10
Bushes, metal spindle pinion		...	...	...	1	1	...	...	11
Chain, actuating, metal, with tension springs and adjusting screws		...	...	...	...	...	...	...	12
Discs, graduated, metal		...	...	...	1	1	...	1	13
Disc, graduated, metal, with fixing screws and lubricating tube, with screw		...	...	...	...	...	1	...	14
Drum, chain, steel, with collar and nut		...	...	...	...	...	...	...	15
Guard, graduated disc, metal, with bolts or screws		...	...	...	1	1	...	1	16
Plates, yard scale, metal, with fixing screws		...	...	...	1	1	1	...	17
Pinions	jamming, metal, with collar	...	...	...	1	1	...	...	18
	metal, with nut	...	...	...	...	...	...	1	19
	steel, with spindle, disc springs and nut	...	...	...	1	1	...	...	20
	steel, with disc springs and nuts	...	...	...	...	...	...	1	21
	inner, steel	...	...	...	...	...	1	...	22
	outer, steel, with set screw	...	...	...	...	...	1	...	23
Pointers	aluminium	...	...	...	...	...	1	...	24
	indicator, metal, with bolts	...	...	...	1	1	...	...	25
	metal, with screws	...	...	...	...	...	...	1	26
Spindles	inner pinion: steel, with metal casing, with set screw, spiral spring, collar, nut and key	...	...	...	...	...	1	...	27
	outer pinion: steel, with metal bush, with securing pins, collar and screw	...	...	...	...	...	1	...	2
Springs, disc, No. 29		...	...	...	2	2	...	...	39
Wheel, chain, metal, with screws		...	...	...	...	...	...	...	30
	GEAR, LOADING.								
Arcs, loading, with cradle, pin, and jamming screw		...	...	1	...	...	...	...	31
Chain check, iron, with loop, adjusting screw, and adjusting and lock nuts		...	...	...	...	...	...	...	32
Chains, endless		...	...	1	...	...	...	...	33
Covers, with screws		...	...	1	...	...	...	...	34
Derrick:—									
	Bolt stop, steel, with spiral spring, nut, and split key	...	...	...	...	...	...	...	35
	Cap, metal, with set screws	...	...	...	...	...	...	...	36
	Hood ,, ,, ,, ,,	...	...	...	...	...	...	...	37
	Pins, sheave, steel, with collar and split key	...	...	...	...	...	...	...	38
	Pivot, controlling loading tray, steel, with metal ring and nuts	...	...	...	...	...	...	...	39

¶ See note ¶ page 376.

† In R.A. charge.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	2	...	...	...	...	...	...	...	...	...	...	...
2	1	...	...	...	...	...	...	...	...	...	...	...	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...
4	...	2	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	1	...	...	...	...	...	...	...	...
6	...	...	1	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	1	...	...	...
8	...	...	1	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	1	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	1	1†
13	...	...	1	...	...	...	...	...	...	1	1	1	...
14	...	...	...	1	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	1	...
16	...	...	1	...	...	...	...	...	...	...	...	1	...
17	...	...	...	1	...	...	...	...	...	1	1	...	...
18	...	...	1	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	1	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	1	...	...	...	...	...	...	...	...	...
23	...	...	...	1	...	...	...	...	...	...	...	...	...
24	...	...	...	1	...	...	...	...	...	...	...	...	...
25	...	...	1	...	...	...	...	...	...	1	1	...	...
26	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	1	...	...	...	...	...	...	...	...	...
28	...	...	...	1	...	...	...	...	...	...	...	...	...
29	...	...	2	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	1	...
31	...	1	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	1	...
33	...	1	...	...	...	...	...	...	...	...	...	...	1
34	...	1	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	...	...	...	...	...	...	...	...	1	...
37	...	...	...	...	...	...	...	...	...	...	...	1	...
38	...	...	...	...	...	...	...	...	...	...	...	2	...
39	...	...	...	...	...	...	...	...	...	...	...	1	...

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Derrick—*continued.*								
Rope, wire, steel, 23 feet 10 inches long, with loop and thimble	...	...	...	...	...	...	...	1
Screws, lubricating, boss head. ⅜-inch, metal	...	...	...	...	...	...	...	2
Sheaves, metal	...	...	...	...	...	...	...	3
Stop, hood, steel, with screws	...	...	...	...	...	...	...	4
Tube, steel	...	...	...	...	...	...	...	5
Drum, steel, with screw	...	...	...	...	...	...	...	6
Handles, winch No. 4, iron	...	...	2	...	...	...	...	7
,, 33, ,,	...	...	...	...	...	...	...	8
Hood, loading tray, iron, with nut	...	...	...	...	...	...	...	9
Pawls ratchet, steel, with handle	...	...	...	...	...	...	...	10
wheel, ratchet	...	...	1	...	...	...	...	11
Pin, ratchet pawl, steel	...	...	...	...	...	...	...	12
Pinions 2nd motion, steel, with collar and key	...	...	1	...	...	...	...	13
spur, steel, 14 teeth	...	...	...	...	...	...	...	14
Rollers, guide lower	...	...	2	...	...	...	...	15
upper	...	...	2	...	...	...	...	16
Shafts, Winch	...	...	1	...	...	...	...	17
Handle steel, with nut, collars and taper pins	...	...	...	...	...	...	...	18
Spindles drum, steel, with collar, nut and split key	...	...	...	...	...	...	...	19
roller guide, with key	...	...	3	...	...	...	...	20
Trays loading, manganese bronze	...	...	...	...	...	...	...	21
projectile	...	...	...	...	...	...	...	22
Wheels ratchet	...	...	1	...	...	...	...	23
,, steel, with taper pin	...	...	...	...	...	...	...	24
sprocket large	...	...	1	...	...	...	...	25
small	...	...	1	...	...	...	...	26
spur, steel, 48-teeth	...	...	...	...	...	...	...	27
GEAR, PUMP, LOWERING.								
Guards, pump, lowering iron, with screws	...	...	...	...	...	...	...	28
Handles, socket, with chain and pin	...	1	...	...	...	...	...	29
Keys, driving shafts, cross steel (set of 2) sets	...	...	...	...	...	...	...	30
,, (set of 3) ,,	...	...	...	...	...	...	...	31
,, (set of 4) ,,	...	1	...	...	...	...	...	32
Levers, shaft, cross link, connecting, 1st motion shaft, with pin, collar, and split key	...	1	...	...	...	...	...	33
link, connecting, 2nd motion shaft, with pin, collar, and split key	...	1	...	...	...	...	...	34
plunger	...	...	...	...	...	...	...	35
,, with roller and pin	...	1	...	...	...	...	...	36
socket handle	...	1	...	...	...	...	...	37
Links. connecting levers, 1st and 2nd motion shafts	...	1	...	...	...	...	...	38
Pipes delivery, copper, with fittings	...	1	...	...	...	...	...	39
suction ,, ,, ,,	...	1	...	...	...	...	...	40
Pump, lowering, complete	...	1	...	...	...	...	...	41

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9/06

¶*See* note ¶ page 376.
† For 10-inch, Mark II., disappearing only.
‡ Mark II. § Mark II*.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch. Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II*.	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	...	...	1	...
2	...	...	...	...	...	...	...	...	...	...	...	2	...
3	...	...	...	...	...	...	...	...	...	...	...	2	...
4	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	2	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	..	...	...	...	...	...	...	...	1	...
11	...	1	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	1	...
13	...	1	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	2	...	...	...	...	...	...	...	...	...	...	...
16	...	2	...	...	...	...	...	...	...	...	...	...	...
17	...	1	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	...	1	...
20	...	3	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	1	...
22	...	...	...	...	...	...	...	...	...	...	...	...	2†
23	...	1	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	1	...
25	...	1	...	...	...	...	...	...	...	...	...	...	...
26	...	1	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	1	...	...	...	...	..
29	1	...	...	...	...	1	1	1	1	...	...	...	...
30	...	...	...	...	...	1	...	...	...	...	...	...	1‡
31	...	...	...	...	...	1	...	...	...	...	...	...	1§
32	1	...	...	...	...	...	1	...	1	...	...	...	1‖
33	1	...	...	...	...	...	1	...	1	...	...	...	1‖
34	1	...	...	...	...	...	1	...	1	...	...	...	
35	...	...	...	...	...	1	1	1	1	...	...	...	1**
36	1	...	...	...	...	...	...	...	...	...	...	...	1
37	1	...	...	...	...	1	1	...	1	...	...	...	1‖
38	1	...	...	...	...	...	1	...	1	...	...	...	...
39	1	...	...	...	...	1	1	1	1	...	...	...	1
40	1	...	...	...	...	1	1	1	1	...	...	...	1
41	1	...	...	...	...	1	1	1	1	...	...	...	1††

‖ Except 6-inch disappearing, Mark III.

** ,, ,, ,, Marks I and III.

†† Per Sub-district of 10 guns or less number of each nature.

B.L. Carriages—Component

	Components.		12-inch.	10-inch.						
				Disappearing.		Barbette.				
						Mark I.				
			Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
	Pump, parts of: boxes, stuffing, metal		...	1	...	...	...	...	...	1
	Pump, parts of: connections, delivery pipe		...	...	...	...	...	...	...	2
	Pump, parts of: connections, suction ,,		...	...	...	...	...	...	...	3
	Pump, parts of: glands		...	2	...	...	...	...	...	4
	Pump, parts of: packing, cotton, plaited, ⅜″ square, length of 45″	lengths	...	...	...	...	...	...	...	5
	Pump, parts of: packing, cotton, plaited, ⅜″ square, ,, ,, 75″	,,	...	1	...	...	...	...	...	6
	Pump, parts of: plugs, guide, valves		...	2	...	...	...	...	...	7
	Pump, parts of: plugs, stopping holes		...	2	...	...	...	...	...	8
	Pump, parts of: body, without fittings		...	1	...	...	...	...	...	9
	Pump, parts of: rings, packing, gland, metal		...	1	...	...	...	...	...	10
	Pump, parts of: rods, guide, plunger ,,		...	1	...	...	...	...	...	11
	Pump, parts of: rods, plunger, metal		...	1	...	...	...	...	...	12
	Pump, parts of: springs, valve, delivery, P. B.		...	2	...	...	...	...	...	13
	Pump, parts of: springs, valve, suction ,,		...	2	...	...	...	...	...	14
	Pump, parts of: valves, delivery, metal		...	2	...	...	...	...	...	15
	Pump, parts of: valves, suction ,,		...	2	...	...	...	...	...	16
57 3 8544	Pump, parts of: washers, packing, pump, lead, set of 5	sets	...	1	...	...	...	...	...	17
	Pump, parts of: washers, packing, pipes, delivery and suction, lead, set of 4	,,	...	1	...	...	...	...	...	18
57 Malta 9756	Pump, parts of: washers, packing, leather, pipes, copper delivery and suction, set of 4	,,	...	...	...	...	...	...	...	19
	Shafts, cross, with collar and keys (split and driving)		...	...	...	...	...	...	...	20
	Shafts, cross, 1st motion, with keys		...	1	...	...	...	...	...	21
	Shafts, cross, 2nd ,, with keys		...	1	...	...	...	...	...	22
	Stops. handle, front		...	1	...	...	...	...	...	23
	Stops. handle, rear		...	1	...	...	...	...	...	24
	GEAR, RAISING, VALVE.									
	Boxes, stuffing, P.B.		...	1	...	...	...	...	...	25
	Glands, valve, raising, metal		...	1	...	...	...	...	...	26
	Guards, sheave, cut off gear, iron, with screws		...	...	...	...	...	...	...	27
	Lanyards, lever, cut off gear, copper, wire rope		...	...	...	...	...	...	...	28
	Levers, link, connecting, left, iron, with pin, collar, and key		...	1	...	...	...	...	...	29
	Levers, link, connecting, right, iron, with pin, collar, and key		...	1	...	...	...	...	...	30
	Levers, link, connecting, with pin, chain, lock and key		...	...	...	...	...	...	...	31
	Levers, hand, shaft, cross, iron		...	1	...	...	...	...	...	32
	Levers, valve, spindle, with pin, sheave, collar and key		...	...	...	...	...	...	...	33
	Links, connecting, iron, with pin, collar, and key		...	1	...	...	...	...	...	34
	Packing for gland —	ozs.	...	...	...	...	...	...	...	35
	Packing for gland, length of 15 inches	lengths	...	...	...	...	...	...	...	36
	Packing for gland, ,, 32 ,,	,,	...	1	...	...	...	...	...	37
	Pinions, spur, 40 teeth, metal, with nuts		...	1	...	...	...	...	...	38
	Pinions, spur, 48 ,, ,, ,,		...	...	...	...	...	...	...	39
	Plates, cover, iron, with screws		...	1	...	...	...	...	...	40
	Rings, packing, valve raising, metal		...	1	...	...	...	...	...	41
71 1 6511	**Racks,** iron, with pin collar and split key		...	1	...	...	...	...	...	42
	Rods, cut off		...	1	...	...	...	...	...	43
	Shafts, cross, iron, with collar and keys		...	...	...	...	...	...	...	44
	Shafts, cross, iron, with keys		...	1	...	...	...	...	...	45

¶ *See* note ¶ page 376. † Per carriage.

‡ In putting forward requisitions, the lead of section, ·4-in. × ·2-in. should be demanded by the foot run, and made into washers locally.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	1	...	...	...	...	1	1	...	1	...	...	...	...
2	...	...	...	...	...	...	...	1	...	...	...	...	...
3	...	...	...	...	...	...	...	1	...	...	...	...	...
4	2	...	...	...	...	2	2	2	2	...	...	...	...
5	...	...	...	...	...	1	1	1	1	...	...	...	1†
6	1	...	...	...	...	...	...	...	...	...	...	...	1†
7	2	...	...	...	...	2	2	1	2	...	...	...	...
8	2	...	...	...	...	2	2	1	2	...	...	...	...
9	1	...	...	...	...	1	1	1	1	...	...	...	...
10	1	...	...	...	...	1	1	1	1	...	...	...	...
11	1	...	...	...	...	1	1	1	1	...	...	...	...
12	1	...	...	...	...	1	1	1	1	...	...	...	...
13	2	...	...	...	...	2	2	2	2	...	...	...	2†
14	2	...	...	...	...	2	2	2	2	...	...	...	2†
15	2	...	...	...	...	2	2	2	2	...	...	...	1
16	2	...	...	...	...	2	2	2	2	...	...	...	1
17	1	...	...	...	...	1	1	1	1	...	...	...	‡
18	1	...	...	...	...	1	1	...	1	...	...	...	‡
19	...	...	...	...	...	...	...	1	...	...	...	...	1
20	...	...	...	...	...	1	...	...	...	...	...	...	
21	1	...	...	...	...	...	1	...	1	...	...	...	1§
22	1	...	...	...	...	...	1	...	1	...	...	...	1§
23	1	...	...	...	...	...	...	...	.	...	...	...	...
24	1	...	...	...	...	...	...	...	...	...	...	...	...
25	1	...	...	...	...	1		..	1	...	...	...	1‖
26	1	...	...	...	...	1	1	1	1	...	...	...	...
27	...	...	...	...	...	...	...	3	...	...	...	...	...
28	...	...	...	...	...	...	...	1	...	...	...	...	1
29	1	...	...	...	...	1	1	...	1	...	...	...	...
30	1	...	...	...	...	1	1	...	1	...	...	...	...
31	...	...	...	...	...	...	...	1	...	...	...	...	...
32	1	...	...	...	...	1	1	...	1	...	...	...	...
33	...	...	...	...	...	...	...	1	...	...	...	...	...
34	1	...	...	...	...	1	1	1	1	...	...	...	...
35	...	...	...	...	...	...	...	8	...	...	...	...	8†
36	...	...	...	...	...	1	1	...	1	...	...	...	1†
37	1	...	...	...	...	...	...	...	...	...	...	...	1†
38	1	...	...	...	...	...	...	..	...	...	...	...	...
39	...	...	...	...	...	1	1	...	1	...	...	...	...
40	1	...	...	...	...	1	1	...	1	...	...	...	...
41	1	...	...	...	...	1	1	...	1	...	...	...	...
42	1	...	...	...	...	1	1	...	1	...	...	...	...
43	1	...	...	...	...	1	1	...	1	...	...	...	...
44	...	...	...	...	...	1	1	...	1	...	...	...	...
45	1	...	...	...	...	...	...	...	...	...	...	...	...

§ Except Mark III 6-inch disappearing.
Per 10 guns or less, 6-inch only, per Sub-District.

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.		Mark II.	Mark III.	
	Garrison.	Mark I.	Mark II.	C.	D.			
Sheaves, metal, cut off gear	...	...	...	...	...	...	...	1
Spindles, with valve, metal, with nut, and split key ...	...	1	...	...	...	...	...	2
Studs, iron, cut off gear .. lanyard...	...	...	...	...	...	..	...	3
Studs, iron, cut off gear .. sheave	...	...	...	...	...	...	...	4
GEAR, SIGHTING.								
Automatic gear, securing sighting steps—								
Brackets, pawl shaft, steel, with screws, left	...	...	...	...	...	...	...	5
Brackets, pawl shaft, steel, with screws, right	...	...	...	...	...	...	...	6
Brackets, pawl shaft, steel, with screws, long	...	...	...	...	...	...	...	7
Brackets, pawl shaft, steel, with screws, short	...	...	...	...	...	...	...	8
Collars, clutch, steel, with set screw, left	...	...	...	...	...	...	...	9
Collars, clutch, steel, with set screw, right	...	...	...	...	...	...	...	10
Counterweight, cast-iron, with steel lever	...	...	...	...	...	...	...	11
Levers, pawl shaft, steel, with stud and taper pin ...	...	...	...	...	...	...	...	12
Links, connecting, ladder rounds, steel, left	...	...	...	...	...	...	...	13
Links, connecting, ladder rounds, steel, right	...	...	...	...	...	...	...	14
Pawls, steel, left	...	...	...	...	...	...	...	15
Pawls, steel, right	...	...	...	...	...	...	...	16
Pieces, packing, wood	...	...	...	...	...	...	...	17
Rods, connectiug levers, steel	...	...	...	...	...	...	...	18
Shafts, pawl, steel, with collars, set screws, and key...	...	...	...	...	...	...	...	19
Bars, radius, step, sighting, left	..	1	...	...	...	...	...	20
Bars, radius, step, sighting, right	...	1	...	...	...	...	...	21
Brackets, with bolts or screws, radius, bar, step, sighting, left	...	1	...	...	...	...	...	22
Brackets, with bolts or screws, radius, bar, step, sighting, right	...	1	...	...	...	...	...	23
Brackets, with bolts or screws, radius, frame, step, sighting, left	...	4	...	...	...	...	.	24
Brackets, with bolts or screws, radius, frame, step, sighting, right	...	4	...	...	...	...	...	25
Brackets, with bolts or screws, shaft, step, sighting ... ... left	...	...	...	...	...	...	..	26
Brackets, with bolts or screws, shaft, step, sighting ... ... right	...	...	...	...	...	...	...	27
Brackets, with bolts or screws, supporting, step, sighting ... left	...	...	...	...	...	...	...	28
Brackets, with bolts or screws, supporting, step, sighting ... right	...	...	...	...	...	...	...	29
Frames, radius, steel, step sighting, left...	...	1	...	...	...	...	...	30
Frames, radius, steel, step sighting, right	...	1	...	...	...	...	...	31
Hooks, spring, step sighting, ...	...	...	...	...	...	...	...	32
Hooks, spring, step sighting, with nuts	...	4	...	...	...	...	...	33
Hooks, spring, step sighting, with collar and nut...	...	...	...	...	...	...	...	34
Hooks, stop, connecting rod, with taper pin	...	4	...	...	...	...	...	35
Guides, round, ladder, rear, with screws, left... ...	...	...	...	...	...	...	...	36
Guides, round, ladder, rear, with screws, right ...	...	...	...	...	...	...	...	37
Ladders, sighting, with screws, front	...	1	...	...	..	...	...	38
Ladders, sighting, with screws, rear, —	...	1	...	...	...	...	...	39
Ladders, sighting, with screws, rear, left	...	...	...	...	...	...	...	40
Ladders, sighting, with screws, rear, right	...	...	...	...	...	..	...	41
Levers, step sighting, large, with pin, collars, and keys ...	...	...	...	...	...	...	...	42
Levers, step sighting, small, with pin, collar and key	...	...	...	...	...	...	...	43
Levers, step sighting, large, with pin and key	...	...	...	...	...	...	...	44
Levers, step sighting, small ,, ,, ,, ...	...	...	...	...	...	..	..	45
Pads, buffer, step sighting, india rubber, with collars and screws	...	4	...	...	...	...	.	46

¶ *See* note ¶ page 376.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	3	...	...	...	...	...
2	1	...	...	...	...	1	1	1	1	...	...	...	1
3	...	...	...	...	...	...	...	1	...	...	...	...	...
4	...	...	...	...	...	...	...	3	...	...	...	...	...
5	...	...	...	...	...	1	...	...	...	...	...	...	...
6	...	...	...	...	...	1	...	...	...	...	...	...	...
7	...	...	...	...	...	...	2	2	2	...	...	...	...
8	...	...	...	...	...	...	2	2	2	...	...	...	...
9	...	...	...	...	...	1	1	1	1	...	...	...	...
10	...	...	...	...	...	1	1	1	1	...	...	...	...
11	...	...	...	...	...	2	2	2	2	...	...	...	...
12	...	...	...	...	...	2	4	4	4	...	...	...	...
13	...	...	...	...	...	1	2	2	2	...	...	...	...
14	...	...	...	...	...	1	2	2	2	...	...	...	...
15	...	...	...	...	...	1	1	1	1	...	...	...	...
16	...	...	...	...	...	1	1	1	1	...	...	...	...
17	...	...	...	...	...	...	4	4	4	...	...	...	...
18	...	...	...	...	...	2	4	4	4	...	...	...	...
19	...	...	...	...	...	2	2	2	2	...	...	...	...
20	1	...	...	...	...	...	...	...	...	...	...	...	...
21	1	...	...	...	...	...	...	...	...	...	...	...	...
22	1	...	...	...	...	...	...	...	...	...	...	...	...
23	1	...	...	...	...	...	...	...	...	...	...	...	...
24	4	...	...	...	...	...	...	...	...	...	...	...	...
25	4	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	1	1	...	1	...	...	...	...
27	...	...	...	...	...	1	1	...	1	...	...	...	...
28	...	...	...	...	...	1	1	...	1	...	...	...	...
29	...	...	...	...	...	1	1	...	1	...	...	...	...
30	1	...	...	...	...	...	...	...	...	...	...	...	...
31	1	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	2	...	2	...	...	...	1†
33	4	...	...	...	...	2	...	2	...	...	...	...	...
34	...	...	...	...	...	2	...	...	...	...	...	...	1†
35	4	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	1	...	...	...	...	...	...	...
37	...	...	...	...	...	1	...	...	...	...	...	...	...
38	1	...	...	...	...	1	1	1	1	...	...	...	...
39	1	...	...	...	...	...	...	1	...	...	...	...	...
40	...	...	...	...	...	1	1	...	1	...	...	...	...
41	...	...	...	...	...	1	1	...	1	...	...	...	...
42	...	...	...	...	...	...	2	...	2	...	...	...	...
43	...	...	...	...	...	...	2	...	2	...	...	...	...
44	...	...	...	...	...	...	...	2	...	...	...	...	...
45	...	...	...	...	...	...	...	2	...	...	...	...	...
46	4	...	...	...	...	4	4	...	4	...	...	...	...

† Per carriage.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Pins, radius bar, with nut and split key	...	2	...	...	...	...	...	1
Pins, with collars and keys, brackets, radius frame	...	4	...	...	...	...	...	2
Pins, with collars and keys, foot plate, long	...	2	...	...	...	...	...	3
Pins, with collars and keys, foot plate, short	...	4	...	...	...	...	...	4
Pins, with collars and keys, joint connecting rod	...	4	...	...	...	...	...	5
Posts, hand	...	1	...	...	...	...	...	6
Rods, connecting	...	4	...	...	...	...	...	7
—	...	...	...	...	...	...	...	8
Rounds, ladder, long	...	...	...	...	...	...	...	9
Rounds, ladder, short	...	...	...	...	...	...	...	10
Shaft, step sighting, with collars, feathers and keys	...	...	...	...	...	...	...	11
Sights, rough, on shield, front	...	1	...	...	...	...	...	12
Sights, rough, on shield, rear	...	1	...	...	...	...	...	13
Sights, rough, on shield, front, with sockets and set screw	...	...	...	...	...	...	...	14
Sights, rough, on shield, rear, with sockets and set screw	...	...	...	...	...	...	...	15
Spindles, for rough sights, front	...	...	...	...	...	...	...	16
Spindles, for rough sights, rear	...	...	...	...	...	...	...	17
Springs, spiral, step sighting, steel	...	4	...	...	...	...	...	18
Slides, iron, grooved for radius bar and support for cover plates, left	...	1	...	...	...	...	...	19
Slides, iron, grooved for radius bar and support for cover plates, right	...	1	...	...	...	...	...	20
Steps, sighting, left	...	1	...	...	...	...	...	21
Steps, sighting, right	..	1	...	...	...	...	...	22
PLATFORM, LANDING AND REAR SIGHTING STEP (SHIELDED MOUNTINGS).								
Brackets, with bolts or screws, supporting, wood platform, landing, inner, left	...	...	...	...	...	...	...	23
Brackets, with bolts or screws, supporting, wood platform, landing, inner, right	...	...	...	...	...	...	...	24
Brackets, with bolts or screws, supporting, wood platform, landing, outer	...	...	...	...	...	...	...	25
Brackets, with bolts or screws, supporting, step sighting, left	...	...	...	...	...	...	...	26
Brackets, with bolts or screws, supporting, step sighting, right	...	..	...	...	...	...	...	27
Ladders, platform, landing, with bolts, left	...	...	...	...	...	...	...	28
Ladders, platform, landing, with bolts, right	...	...	...	...	...	...	...	29
Lever, step, sighting, with key	...	...	...	...	...	...	...	30
Plate, loop, securing, step sighting, with links	...	...	...	...	...	...	...	31
Platforms, wood (in two pieces), left	...	...	...	...	...	...	...	32
Platforms, wood (in two pieces), right	...	...	...	...	...	...	...	33
Rails, hand, with bolts	...	...	...	...	...	...	...	34
Shaft, step sighting, with collar, feathers, and key	...	...	...	...	...	...	...	35
Stays, with bolts, ladders, platform landing (in two pieces), left	...	...	...	...	...	...	...	36
Stays, with bolts, ladders, platform landing (in two pieces), right	...	...	...	...	...	...	...	37
Stays, with bolts, platform landing, inside, left	...	...	...	...	...	...	...	38
Stays, with bolts, platform landing, inside, right	...	...	...	...	...	...	...	39
Stays, with bolts, platform landing, outside, left	...	...	...	...	...	...	...	40
Stays, with bolts, platform landing, outside, right	...	...	...	...	...	...	...	41
Stays, with bolts, steps, intermediate	...	...	...	...	...	...	...	42
Steps, intermediate (in two pieces)	...	...	...	...	...	...	...	43
Steps, sighting	...	...	...	...	...	...	...	44

¶ *See* note ¶ page 376.

and Spare Parts for—*continued.*

	9·2 inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	2	...	...	...	...	...	...	...	...	...	...	...	...
2	4	...	...	...	...	...	...	...	...	...	...	...	...
3	2	...	...	...	...	...	...	...	...	...	...	...	...
4	4	...	...	...	...	...	...	...	...	...	...	...	...
5	4	...	...	...	...	...	...	...	...	...	...	...	...
6	1	...	...	...	...	2	2	2	2	...	...	...	...
7	4	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	2	...	...	...	...	...	...	...
9	...	...	...	...	...	...	2	2	2	...	...	...	...
10	...	...	...	...	...	...	2	2	2	...	...	...	...
11	...	...	...	...	...	2	2	2	2	...	...	...	...
12	1	...	...	...	...	1	...	1	...	...	...	...	...
13	1	...	...	...	...	1	...	1	...	...	...	...	...
14	...	...	...	...	...	...	1	...	1	...	...	...	...
15	...	...	...	...	...	...	1	...	1	...	...	...	...
16	...	...	...	...	...	1	...	...	...	...	...	...	...
17	...	...	...	...	...	1	...	...	...	...	...	...	...
18	4	...	...	...	...	2	2	2	2	...	...	...	1†
19	1	...	...	...	...	...	...	...	...	...	...	...	...
20	1	...	...	...	...	...	...	...	...	...	...	...	...
21	1	...	...	...	...	1	1	1	1	...	...	...	...
22	1	...	...	...	...	1	1	1	1	...	...	...	...
23	...	...	...	...	...	1	1	1	1	...	...	...	...
24	...	...	...	...	...	1	1	1	1	...	...	...	...
25	...	...	...	...	...	2	2	2	2	...	...	...	...
26	...	...	...	...	...	1	1	1	1	...	...	...	...
27	...	...	...	...	...	1	1	1	1	...	...	...	...
28	...	...	...	...	...	1	1	1	1	...	...	...	...
29	...	...	...	...	...	1	1	1	1	...	...	...	...
30	...	...	...	...	...	1	1	1	1	...	...	...	...
31	...	...	...	...	...	1	1	1	1	...	...	...	...
32	...	...	...	...	...	1	1	1	1	...	...	...	...
33	...	...	...	...	...	1	1	1	1	...	...	...	...
34	...	...	...	...	...	2	2	2	2	...	...	...	...
35	...	...	...	...	...	1	1	1	1	...	...	...	...
36	...	...	...	...	...	1	1	1	1	...	...	...	...
37	...	...	...	...	...	1	1	1	1	...	...	...	...
38	...	...	...	...	...	1	1	1	1	...	...	...	...
39	...	...	...	...	...	1	1	1	1	...	...	...	...
40	...	...	...	...	...	1	1	1	1	...	...	...	...
41	...	...	...	...	...	1	1	1	1	...	...	...	...
42	...	...	...	...	...	1	1	1	1	...	...	...	...
43	...	...	...	...	...	2	2	2	2	...	...	...	...
44	...	...	...	...	...	1	1	1	1	...	...	...	...

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† Per carriage.

B.L. Carriages—Component

71
1
7897

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I. C.	Mark I. D.	Mark II.	Mark III.	
PLATFORM, SAFETY.								
Axles, roller, steel	...	...	...	...	...	...	...	1
Boards, wood, with bolts (set of 26) ... sets	...	...	...	...	...	...	...	2
Brackets roller axle, metal, with split key, lubricating screw and bolts	...	...	...	...	...	...	...	3
Brackets supporting centre	...	...	...	...	...	...	...	4
Brackets supporting front left, steel with bolts and screws	...	...	...	...	...	...	...	5
Brackets supporting front right, steel with bolts and screws	...	...	...	...	...	...	...	6
Brackets supporting rear left, steel with bolts and screws	...	...	...	...	...	...	...	7
Brackets supporting rear right, steel with bolts and screws	...	...	...	...	...	...	...	8
Frame, steel (in 3 segments), with bolts	...	...	...	...	...	...	...	9
Rails, hand, steel	...	...	...	...	...	...	...	10
Rollers, metal	...	...	...	...	...	...	...	11
Stanchions, handrail, steel	...	...	...	...	...	...	...	12
RACER, SAFETY PLATFORM.								
Racer, metal (in 8 segments), with nuts and screws	...	...	...	...	...	...	...	13
GEAR, TRAVERSING.								
Bearings, forked, metal, with nut and split keys	...	...	..	...	...	...	...	14
Blocks, disconnecting, with handle	...	...	2	...	...	...	...	15
Covers iron, with screws	...	...	2	...	...	...	...	16
Covers lubricating traversing pinion, metal, with screw	...	...	...	...	...	...	...	17
Guards pinion, spindle, iron, with screws	...	...	...	...	...	...	...	18
Guards bevel wheels forked, bearing, metal, in 2 parts, with screws	...	...	...	...	...	...	...	19
Guards bevel wheels rear, metal, with screws	...	...	...	...	...	...	...	20
Guards spur wheel, and pinion, metal with screws	...	...	...	...	...	...	...	21
Handles, crank	...	...	2	...	...	...	...	22
Pedestal, rear, traversing, cast iron with cap, lubricating pipe, bolts, and screws	...	...	...	...	...	...	...	23
Pinions bevel 1st motion, 12 teeth, with key	...	...	...	...	...	...	...	24
Pinions bevel 1st motion shaft 13 teeth	...	...	...	...	...	...	...	25
Pinions bevel 1st motion shaft 14 ,,	...	2	...	...	...	...	...	26
Pinions bevel front or rear, traversing metal, 15 teeth, with taper pin	...	...	...	...	...	...	...	27
Pinions bevel rear, traversing lower metal, 15 teeth, with taper pin	...	...	...	...	...	...	...	28
Pinions bevel rear, traversing upper metal, 15 teeth, with taper pin	...	...	...	...	...	...	...	29
Pinions bevel crank handle	...	...	2	...	...	...	...	30
Pinions bevel shaft, diagonal	...	...	2	...	...	...	...	31
Pinions spur immediate, steel, 13 teeth with spindle and key	...	...	...	...	...	...	...	32
Pinions spur shaft, diagonal	...	...	2	...	...	...	...	33
Pinions spur spindle 2nd motion	...	...	2	...	...	...	...	34
Pinions spur spindle 3rd ,,	...	...	2	...	...	...	...	35

¶ *See* note ¶ page 376.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I. and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	12	...	...	...
2	...	...	...	...	...	...	...	...	...	1	...	...	...
3	...	...	...	...	...	...	...	...	...	12	...	...	...
4	...	...	...	...	...	...	...	...	...	2	...	...	...
5	...	...	...	...	...	...	...	...	...	1	...	...	...
6	...	...	...	...	...	...	...	...	...	1	...	...	...
7	...	...	...	...	...	...	...	...	...	1	...	...	...
8	...	...	...	...	...	...	...	...	...	1	...	...	...
9	...	...	...	...	...	...	...	...	...	1	...	...	...
10	...	...	...	...	...	...	...	...	...	11	...	...	...
11	...	...	...	...	...	...	...	...	...	12	...	...	...
12	...	...	...	...	...	...	...	...	...	12	...	...	...
13	...	...	...	...	...	...	...	...	...	1	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	2	...
15	...	2	...	...	...	...	...	...	...	...	...	...	...
16	...	2	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	1	...
18	...	...	...	...	...	...	...	4	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	2	...
20	...	...	...	...	...	...	...	...	...	...	...	1	...
21	...	...	...	...	...	...	...	...	...	...	...	2	...
22	...	2	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	2	...	2	...	...	...	...
25	...	...	...	...	...	2	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	2	1†
28	...	...	...	...	...	...	...	...	...	...	..	1	...
29	...	...	...	...	...	...	...	...	...	...	...	2	1†
30	...	2	...	...	...	...	...	...	...	...	...	...	...
31	...	2	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	2	...
33	...	2	...	...	...	...	...	...	...	...	...	...	...
34	...	2	...	...	...	...	...	...	...	...	...	...	...
35	...	2	...	...	...	...	...	...	...	...	...	...	...

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† Per district, A.O. charge.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I.		Mark II.	Mark III.	
				C.	D.			
Pinions, spur, with spindle and key	...	...	...	...	...	...	...	1
Pinions, spur, 2nd motion, 12 teeth with nut and key	...	...	...	...	...	...	...	2
Pinions, spur, 2nd motion, shaft, 12 teeth	...	2	...	...	...	...	...	3
Pinions, spur, 3rd motion, shaft, 12 teeth	...	2	...	...	...	...	...	4
Pinions, spur, 3rd motion, shaft, 13 ,,	...	...	...	...	...	...	...	5
Pinions, traversing, steel spur, 18 teeth, with spindle	...	...	...	...	...	...	...	6
Screws, lubricating, thumb, ⅜-inch, metal	...	...	...	...	...	...	...	7
Screws, lubricating, thumb, $\frac{5}{16}$,, ,,	...	...	...	...	...	...	...	8
Shafts, diagonal	...	...	2	...	...	...	...	9
Shafts, 1st motion, with keys	...	...	...	...	...	...	...	10
Shafts, 1st motion, ,, ,, collars and pins	...	2	...	...	...	...	...	11
Shafts, 1st motion, front, steel, with collars, nut, and taper pin	...	...	...	...	...	...	...	12
Shafts, 1st motion, rear, steel, with collars, nut, and taper pin	...	...	...	...	...	...	...	13
Shafts, 2nd motion, with collar, key, and screw	...	...	...	...	...	...	...	14
Shafts, 2nd motion, ,, keys, collars, and pins	...	2	...	...	...	...	...	15
Shafts, 2nd motion, rear, steel	...	...	...	...	...	...	...	16
Shafts, 3rd motion, with keys, collars, and pins	...	2	...	...	...	...	...	17
Shafts, 3rd motion, steel, with collar and taper pin	...	...	...	..	...	...	...	18
Spindles, steel, with collars and keys, 2nd motion	...	...	2	...	...	...	...	19
Spindles, steel, with collars and keys, 3rd ,,	...	...	2	...	...	...	...	20
Wheels, bevel, front or rear traversing, metal, 30 teeth	...	...	...	...	...	...	...	21
Wheels, bevel, rear, traversing, metal, 30 teeth, with taper pin	...	...	...	...	...	...	...	22
Wheels, bevel, 2nd motion, shaft, 36 teeth	...	...	...	...	...	...	...	23
Wheels, bevel, 2nd motion, shaft, 40 ,,	...	2	...	...	...	...	...	24
Wheels, hand, iron	...	...	...	...	...	...	...	25
Wheels, front, iron, 24 inches diameter, with handle	...	...	...	...	...	...	...	26
Wheels, rear, iron, 14 inches diameter	...	...	...	...	...	...	...	27
Wheels, hand, iron, with handle	...	2	...	...	...	...	...	28
Wheels, mitre, 25 teeth, 1st motion shaft	...	...	...	...	...	...	...	29
Wheels, mitre, 25 teeth, 2nd ,, ,,	...	...	...	...	...	...	...	30
Wheels, spur, 2nd motion	...	...	2	...	...	...	...	31
Wheels, spur, 3rd motion, —	...	...	2	...	...	...	...	32
Wheels, spur, 3rd motion, shaft, 40 teeth	...	...	...	...	...	...	...	33
Wheels, spur, 3rd motion, ,, 54 ,,	...	2	...	...	...	...	...	34
Wheels, spur, ...	...	...	...	...	...	...	...	35
Wheels, spur, steel, 52 teeth	...	...	...	...	...	...	...	36
PUMPS.								
Pins, cap square, iron, with chain and loop	...	...	...	...	...	...	...	37
Platform, loading—								
Blocks, packing girders, left, cast iron, with bolts	...	...	...	...	...	...	...	38
Blocks, packing girders, right, cast iron, with bolts	...	...	...	...	...	...	...	39
Boards, platform, chequered, with bolt (set of 4) sets	...	...	...	...	...	...	...	40
Brackets, supporting, front, steel, with bolts	...	...	...	...	...	...	...	41
Brackets, top stop, rear, steel, with bolts	...	...	...	...	...	...	...	42

¶ *See* note ¶ page 376.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	4	...	...	...	...	...
2	...	...	...	...	...	...	2	...	2	...	...	...	...
3	2	...	...	...	...	2	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...
5	2	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	2	...
7	...	...	...	...	...	...	...	...	...	...	...	2	2 per carriage‡
8	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	2	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	2	...	...	...	...	...	...	...
11	2	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	1	1†
13	...	...	...	...	...	...	...	...	...	...	...	1	1†
14	...	...	...	...	...	2	...	...	...	...	...	...	...
15	2	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	1	...
17	2	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	2	...	...	...	...	...	...	...	...	...	...	...
20	...	2	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	2	...
22	...	...	...	...	...	...	...	...	...	...	...	1	...
23	...	...	...	...	...	2	2	...	2	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	2	2	4	2	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	1	1†
27	...	...	...	...	...	...	...	...	...	...	...	1	1†
28	2	...	...	...	...	...	...	...	...	...	...	...	...
29	2	...	...	...	...	...	...	...	...	...	...	...	...
30	2	...	...	...	...	...	...	...	...	...	...	...	...
31	...	2	...	...	...	...	...	...	...	...	...	...	...
32	...	2	...	...	...	...	...	...	...	...	...	...	...
33	2	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	4	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	2	...
37	...	...	...	...	...	...	...	...	...	...	...	2	1 per 5 carriages‡
38	...	...	...	...	...	...	...	...	...	...	...	1	...
39	...	...	...	...	...	...	...	...	...	...	...	1	...
40	...	...	...	...	...	...	...	...	...	...	...	1	...
41	...	...	...	...	...	...	...	...	...	...	...	1	...
42	...	...	...	...	...	...	...	...	...	...	...	1	...

† Per District in A.O. charge. ‡ In R.A. charge.

B.L. Carriages—Component

Articles.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I.		Mark II.	Mark III.	
				C.	D.			
Brackets, windlass, loading gear, steel, with bolts	...	...	...	...	...	...	...	1
Girders, supporting, left, steel, with screws	...	...	...	...	...	...	...	2
Girders, supporting, right, steel, with screws	...	...	...	...	...	...	...	3
Key, securing battery box, steel, with chain and loop	...	...	...	...	...	...	...	4
Ladders, left, steel, with wood steps, and bolts	...	...	...	...	...	...	...	5
Ladders, right, steel, with wood steps, and bolts	...	...	...	...	...	...	...	6
Plates, angle, securing battery, left, steel	...	...	...	...	...	...	...	7
Plates, angle, securing battery, right, steel	...	...	...	...	...	...	...	8
Plates, packing—steel	...	...	...	...	...	...	...	9
Plates, rear, connecting girders, steel, with bolts	...	...	...	...	...	...	...	10
Plates, supporting traversing gear, pedestal, steel	...	...	...	...	...	...	...	11
Rails, hand, left, iron, with stanchion, taper pins, and bolts	...	...	...	...	...	...	...	12
Rails, hand, right, iron, with stanchion, taper pins, and bolts	...	...	...	...	...	...	...	13
Stays, supporting, left ladder, iron, with bolts	...	...	...	...	...	...	...	14
Stays, supporting, right ,, steel, ,,	...	...	...	...	...	...	...	15
Transom, connecting girders, steel, with bolts	...	...	...	...	...	...	...	16
Covers, iron, with screws	...	...	4	...	...	...	...	17
Levers, clutch, left	...	...	2	...	...	...	...	18
Levers, clutch, right	...	...	2	...	...	...	...	19
Pinions, clutch (set of 3) ... sets	...	...	4	...	...	...	...	20
Pinions, spur (set of 3) ... ,,	...	...	...	...	...	...	...	21
Pipes, copper, with connections, delivery	...	...	2	...	...	...	...	22
Pipes, copper, with connections, suction	...	...	1	...	...	...	...	23
Plungers, with rod, pump, air (set of 2) ... sets	...	...	1	...	...	...	...	24
Plungers, with rod, pump, water	...	...	...	...	...	...	...	25
Pumps, air	...	...	1	...	...	...	...	26
Pumps, water	...	...	1	...	...	...	...	27
Rings, leather, cup shape (set of 7) ... sets	...	...	1	...	...	...	...	28
Shafts, crank	...	...	2	...	...	...	...	29
Shafts, cross	...	...	2	...	...	...	...	30
Spindles, connecting, valve, suction	...	...	2	...	...	...	...	31
Tubes, india-rubber, suction, with coupling	...	...	1	...	...	...	...	32
Valves, air	...	...	...	...	...	...	...	33
Valves, suction, with hand wheel and connection	...	...	2	...	...	...	...	34
Valves, water	...	...	...	...	...	...	...	35
Wheels, hand, with handles	...	...	2	...	...	...	...	36
Wheels, spur	...	...	4	...	...	...	...	37
Washers, packing, leather (set of 18) ... sets	...	...	1	...	...	...	...	38
Roller ring—								
Axles, roller steel, with lubricating screw	...	...	...	...	...	...	...	39
Bushes, roller, metal	...	...	...	...	...	...	...	40
Guards, roller ring, left, steel with copper pipe, in 2 parts, with cover plate	...	...	...	...	...	...	...	41
Guards, roller ring, right, steel, with copper pipe, in 3 parts, with cover plate	...	...	...	...	...	...	...	42
Ring, roller steel	...	...	...	...	...	...	...	43
Rollers, No. 16, steel	...	...	...	...	...	...	...	44
Screws, securing roller axles, steel	...	...	...	...	...	...	...	45
Screws, lubricating, thumb, $\frac{5}{16}$-inch, metal	...	...	...	...	...	...	...	46

¶ *See* note ¶ page 376.

† For 10-inch and 9·2-inch, disappearing, Mark II mountings.

and Spare Parts for—*continued.*

	9·2 inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	...	...	1	...
2	...	...	...	...	...	...	...	...	...	...	...	1	...
3	...	...	...	...	...	...	...	...	...	...	...	1	...
4	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	...	...	...	...	...	1	...
8	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	2	...
10	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	...	...	...	...	...	...	1	...
12	...	...	...	...	...	...	...	...	...	...	...	1	...
13	...	...	...	...	...	...	...	...	...	...	...	1	...
14	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	...	...	1	...
16	...	...	...	...	...	...	...	...	...	...	...	1	...
17	...	4	...	...	...	...	...	...	...	...	...	...	...
18	...	2	...	...	...	...	...	...	...	...	...	...	...
19	...	2	...	...	...	...	...	...	...	...	...	...	...
20	...	4	...	...	...	...	...	...	...	...	...	...	1 set
21	...	...	...	...	...	...	...	...	...	...	...	...	1 set
22	...	2	...	...	...	...	...	...	...	...	...	...	...
23	...	1	...	...	...	...	...	...	...	...	...	...	...
24	...	1	...	...	...	...	...	...	...	...	...	...	1 set
25	...	...	...	...	...	...	...	...	...	...	...	...	1
26	...	1	...	...	...	...	...	...	...	...	...	...	...
27	...	1	...	...	...	...	...	...	...	...	...	...	...
28	...	1	...	...	...	...	...	...	...	...	...	...	2†
29	...	2	...	...	...	...	...	...	...	...	...	...	...
30	...	2	...	...	...	...	...	...	...	...	...	...	...
31	...	2	...	...	...	...	...	...	...	...	...	...	1
32	...	1	...	...	...	...	...	...	...	...	...	...	1
33	...	...	...	...	...	...	...	...	...	...	...	...	1 set†
34	...	2	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	1 set†
36	...	2	...	...	...	...	...	...	...	...	...	...	...
37	...	4	...	...	...	...	...	...	...	...	...	...	...
38	...	1	...	...	...	...	...	...	...	...	...	...	2‡
39	...	...	...	...	...	...	...	...	...	...	...	16	2 per carriage§
40	...	...	...	...	...	...	...	...	...	...	...	32	6 per carriage§
41	...	...	...	...	...	...	...	...	...	...	...	1	...
42	...	...	...	...	...	...	...	...	...	...	...	1	...
43	...	...	...	...	...	...	...	...	...	...	...	1	...
44	...	...	...	...	...	...	...	...	...	...	...	16	...
45	...	...	...	...	...	...	...	...	...	...	...	16	4 per carriage§
46	...	...	...	...	...	...	...	...	...	...	...	16	12 per carriage§

‡ Per carriage. § In R.A. charge.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I. C.	Mark I. D.	Mark II.	Mark III.	
TACKLE, LOADING.								
Arcs, angle, steel, bar, radial	...	1	...	...	...	...	...	1
Bars, radial, steel	...	1	...	...	...	...	...	2
Blocks, metal, with fall	...	1	...	...	...	...	...	3
sliding	...	1	...	...	...	...	...	4
Bolts, iron, bar, radial	...	1	...	...	...	...	...	5
Brackets, steel pivot, with bolts	...	1	...	...	...	...	...	6
Plates, metal, bar radial	...	1	...	...	...	...	...	7
SHIELD.								
Brackets, supporting shield, steel, with screws	...	...	...	...	...	...	...	8
Pins, stay, with key and nut, long	...	...	...	...	...	...	...	9
short	...	...	...	...	...	...	...	10
steel, with nuts and split key, long	...	...	...	2	4	...	...	11
short	...	...	...	2	2	...	...	12
do. do. do. small	...	...	...	...	14	...	...	13
Screws, iron, bracket, shield	...	...	...	...	...	...	...	14
Shields, steel, with bolts	...	...	...	1	1	...	...	15
without fittings, steel	...	...	...	...	...	...	...	16
Stays, shield, steel	...	...	...	2	8	...	...	17
supporting shield, front, left, steel, with screws	...	...	...	...	...	...	...	18
right	...	...	...	...	...	...	...	19
rear, left	...	...	...	...	...	...	...	20
right	...	...	...	...	...	...	...	21
Slide:—								
Brackets, 1st motion shaft, elevating gear, metal, with screws	...	...	...	...	...	...	...	22
2nd motion shaft, elevating gear, centre	...	...	...	...	...	...	...	23
front	...	...	...	...	...	...	...	24
rear	...	...	...	...	...	...	...	25
3rd motion shaft, rear reversing gear, metal, with bolts	...	...	...	...	...	...	...	26
derrick, loading gear, steel, with bolts and screws	...	...	...	...	...	...	...	27
piston rod, left	...	...	...	...	...	...	...	28
right	...	...	...	...	...	...	...	29
traversing pinion, steel, with fixing screws, and 2 metal bearings with caps and screws	...	...	...	...	...	...	...	30
Plates, clip, steel, with screws	...	...	...	...	...	...	...	31
Pointers, arc, traversing, metal, with screws	...	...	...	...	...	...	...	32
Slide, body, without fittings, steel	...	...	...	...	...	...	...	33
Stop, limiting elevation; metal, with bolts	...	...	...	...	...	...	...	34
‡ **Stage**, extending, loading platform, B.L., 6-in., barbette :—								
Boards, platform, chequered, with bolts (set of 4) set	...	...	...	...	...	...	...	35
Block, packing, left girder, cast iron, with bolts	...	...	...	...	...	...	...	36
Frame supporting platform boards, steel, with fixing bolts	...	...	...	...	...	...	...	37

¶ *See* note ¶ page 376.

† Per district in A.O. charge.

and Spare Parts for—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.¶	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	1	...	...	...	...	...	...	...	...	...	...	...	...
2	1	...	...	...	...	...	...	...	...	...	...	...	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...
4	1	...	...	...	...	...	...	...	...	...	...	...	...
5	1	...	...	...	...	...	...	...	...	...	...	...	...
6	1	...	...	...	...	...	...	...	...	...	...	...	...
7	1	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	2	...
9	...	...	...	...	2	...	...	...	...	...	...	...	...
10	...	...	...	...	2	...	...	...	...	...	...	...	...
11	...	...	2	...	...	...	...	...	...	...	2	...	...
12	...	...	2	...	...	...	...	...	...	...	2	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	12	...	...
15	...	...	1	...	1	...	...	...	...	...	1	...	...
16	...	...	...	...	...	...	...	...	...	...	...	1	...
17	...	...	2	...	2	...	...	...	...	...	2	...	...
18	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	...	1	...
20	...	...	...	...	...	...	...	...	...	...	...	1	...
21	...	...	...	...	...	...	...	...	...	...	...	1	...
22	...	...	...	...	...	...	...	...	...	...	...	1	...
23	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	...	...	...	...	...	1	...
25	...	...	...	...	...	...	...	...	...	...	...	1	...
26	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	...	...	...	...	1	...
29	...	...	...	...	...	...	...	...	...	...	...	1	...
30	...	...	...	...	...	...	...	...	...	...	...	2	...
31	...	...	...	...	...	...	...	...	...	...	...	2	1†
32	...	...	...	...	...	...	...	...	...	...	...	1	...
33	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	...	...	...	...	...	...	...	...	...	...	1	...
35	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	...	...	...	...	...	...	...	...	1	...
37	...	...	...	...	...	...	...	...	...	...	...	1	...

---

‡ When specially authorised.

B.L. Carriages—Component

Components.	12-inch.	10-inch.						
		Disap-pearing.		Barbette.				
				Mark I.				
	Garrison.	Mark I.	Mark II.	C.	D.	Mark II.	Mark III.	
Stage, extending—*cont.*:—								
Rails, hand, iron (in 3 parts, with couplings and taper pins), with 4 stanchions and bolts	...	...	...	...	...	...	...	1
Stay, frame, steel, with bolts	...	...	...	...	...	...	...	2
PUMP, RUNNING BACK.								
Boxes, metal, stuffing, valve release	...	...	...	...	...	1	1	3
Bearings, metal { shaft, crank	...	...	...	1	1	1	1	4
sliding, plunger...	...	...	...	1	1	1	1	5
Bushes, metal, cistern, shaft crank...	...	...	...	...	...	1	1	6
Casings, metal... { front	...	...	...	1	1	1	1	7
rear...	...	...	...	1	1	1	1	8
Cisterns, cast-iron	...	...	...	1	1	1	1	9
Covers, ,,	...	...	...	1	1	1	1	10
Glands, metal, plunger...	...	...	...	2	2	2	2	11
Levers, double handed...	...	...	...	...	...	...	1	12
Nuts, metal { securing pump ...	...	...	...	1	1	1	1	13
spindle, valve release ...	...	...	...	1	1	1	1	14
Packing, for pump (length of 50 inches) ... lengths	...	...	...	1	1	1	1	15
Pipes, copper, with fittings { connecting pump ...	...	...	...	1	1	1	1	16
release ...	...	...	...	1	1	1	1	17
Plates, instruction { filling, metal	...	...	...	...	...	...	...	18
open, and close, metal	...	...	...	...	...	...	...	19
Plugs, metal { air	...	...	...	2	2	2	2	20
retaining pump	...	...	...	2	2	2	2	21
strainer, valve suction	...	...	...	2	2	2	2	22
valve, delivery	...	...	...	2	2	2	2	23
,, suction...	...	...	...	2	2	2	2	24
Plungers, metal ...	...	...	...	1	1	1	1	25
Shafts, steel, crank	...	...	...	1	1	1	1	26
Spindles, metal, valve, release	...	...	...	1	1	1	1	27
Stops, wrought-iron pump	...	...	...	1	1	...	...	28
Studs, wrought-iron cistern	...	...	...	8	8	8	8	29
Strainers, copper, valve suction	...	...	...	2	2	2	2	30
Springs, spiral { P.B., valve, suction	...	...	...	2	2	2	2	31
steel, valve, delivery	...	...	...	2	2	2	2	32
Valves, metal { delivery	...	...	...	2	2	2	2	33
draw off	...	...	...	1	1	1	1	34
suction	...	...	...	2	2	2	2	35
Washers, packing, leather { set of 16 ... sets	...	...	...	1	1	...	...	36
,, 18	...	...	...	...	...	1	1	37
Wheels, metal, hand spindle, valve release	...	...	...	1	1	1	1	38
Unions, metal, connecting pipe, copper, release...	...	...	...	...	...	1	1	39
Pedestal, B.L. 6-inch, barbette (Mark I), cast-iron, with traversing arc, rack, racer, 7 anchoring plates, and 28 holding down bolts, for Mark II carriages:—								
Arc, traversing, No. 32, metal, graduated, with screws	...	...	...	...	...	...	...	40
Bolts, holding-down, iron, with nuts	...	...	...	...	...	...	...	41
Pedestal, without fittings, cast-iron	...	...	...	...	...	...	...	42
Plates, anchoring, steel	...	...	...	...	...	...	...	43
Racer, steel (in 3 segments), with 60 fixing bolts	...	...	...	...	...	...	...	44
Racks, traversing, steel (in 8 segments), with 24 bolts	...	...	...	...	...	...	...	45

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S. Leone
1581

¶ See note ¶ page 376.

and Spare Parts—*continued.*

	9·2-inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	...	...	...	...	...	...	...	...	...	...	...	1	...
2	...	...	...	...	...	...	...	...	...	...	...	1	...
3	...	...	...	1	...	...	...	...	...	...	...	...	...
4	...	...	1	1	...	...	...	...	...	...	...	...	...
5	...	...	1	1	...	...	...	...	...	...	...	...	
6	...	...	...	1	...	...	...	...	...	...	...	...	...
7	...	...	1	1	...	...	...	...	...	...	...	...	...
8	...	...	1	1	...	...	...	...	...	...	...	...	...
9	...	...	1	1	...	...	...	...	...	...	...	...	..
10	...	...	1	1	...	...	...	...	...	...	...	...	...
11	...	...	2	2	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	1	1	...	...	...	...	...	...	...	...	...
14	...	...	1	1	...	...	...	...	...	...	...	...	...
15	...	...	1	1	...	...	...	...	...	...	...	...	1†
16	...	...	1	1	...	...	...	...	...	...	...	...	1
17	...	...	1	1	...	...	...	...	...	...	...	...	...
18	...	...	1	...	...	...	...	...	...	...	...	...	...
19	...	...	1	...	...	...	...	...	...	...	...	...	...
20	...	...	2	2	...	...	...	...	...	...	...	...	...
21	...	...	2	2	...	...	...	...	...	...	...	...	...
22	...	...	2	2	...	...	...	...	...	...	...	...	...
23	...	...	2	2	...	...	...	...	...	...	...	...	...
24	...	...	2	2	...	...	...	...	...	...	...	...	...
25	...	...	1	1	...	...	...	...	...	...	...	...	...
26	...	...	1	1	...	...	...	...	...	...	...	...	...
27	...	...	1	1	...	...	...	...	...	...	...	...	...
28	...	...	1	...	...	...	...	...	...	...	...	...	...
29	...	...	8	8	...	...	...	...	...	...	...	...	...
30	...	...	2	2	...	...	...	...	...	...	...	...	...
31	...	...	2	2	...	...	...	...	...	...	...	...	2
32	...	...	2	2	...	...	...	...	...	...	...	...	2
33	...	...	2	2	...	...	...	...	...	...	...	...	1
34	...	...	1	1	...	...	...	...	...	...	...	...	1
35	...	...	2	2	...	...	...	...	...	...	...	...	1
36	...	...	1	...	...	...	...	...	...	...	...	...	2†
37	...	...	...	1	...	...	...	...	...	...	...	...	2†
38	...	...	1	1	...	...	...	...	...	...	...	...	...
39	...	...	...	1	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	1	...
41	...	...	...	...	...	...	...	...	...	...	...	28	...
42	...	...	...	...	...	...	...	...	...	...	...	1	...
43	...	...	...	...	...	...	...	...	...	...	...	7	...
44	...	...	...	...	...	...	...	...	...	...	...	1	...
45	...	...	...	...	...	...	...	...	...	...	...	1	...

† Per carriage.

B.L. Carriages.—Component

Components.	12-inch.	10-inch.						
		Disappearing.		Barbette.				
	Garrison.	Mark I.	Mark II.	Mark I. C.	Mark I. D.	Mark II.	Mark III.	
RACER, WITH RACK.								
Bolts, holding down, inner, iron, with nuts	...	24	...	...	...	...	...	1
Bolts, holding down, outer ,, ,, ...	...	48	...	...	...	...	...	2
Plates, holding down, cast steel, —	...	...	...	...	...	...	...	3
Plates, holding down, cast steel, inner	...	12	...	...	...	...	...	4
Plates, holding down, cast steel, outer	...	12	...	...	...	...	...	5
Racks, traversing, steel, with screws	...	1	...	...	...	...	...	6
Racers, steel, with bolts	...	1	...	...	...	...	...	7
Racers, ...	...	...	...	...	...	...	...	8

and Spare Parts for—*continued.*

	9·2 inch.				8-inch.	6-inch Disappearing.				6-inch.			Proportion of Spare.
	Disappearing.		Barbette.		Barbette.	Marks IV & VI guns.		Mark V gun.		Vavasseur Central Pivot.	Barbette.		Per 10 guns, or less No. of each nature.
	Mark I.	Mark II.	Mark I and IA.	Mark II.	Mark I.	Mark II and II.*	Mark IV.	Mark I.	Mark III.		Mark I.	Mark II.	
1	20	...	...	...	...	15	15	...	15	...	...	...	...
2	40	...	...	...	...	30	30	...	30	...	...	...	...
3	...	...	...	...	...	5	5	...	5	...	...	...	...
4	10	...	...	...	...	...	...	...	...	...	...	...	...
5	10	...	...	...	...	...	...	...	...	...	...	...	...
6	1	...	...	...	...	1	1	...	1	...	...	...	...
7	1	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	1	1	...	1	...	...	...	...

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Gen. No.
9612

CARRIAGE, GARRISON, BARBETTE, B.L., 9·2-INCH (MARK III) |L|.

Steel; with Slide, Roller ring, Shield, and Sighting platforms.

Component and Spare Parts.

Designation.	Detail.	No.	Proportion of spare.	
			In R.A. Charge.	In A.O. Charge per District.*
Bearings, ball, trunnions, left	steel band, with bearing ring and 3 screws, sleeve with distance and 2 bearing rings and adjusting nut, and 21 anti-friction balls	1		
Bearings, ball, trunnions, right		1		
Balls, anti-friction, 1¼-inch diameter	steel, hardened	—	42 per section of defence.	25 per cent.
Blocks, trunnion, left	steel, with M.B. clip bars, with screws, and anti-friction liners	1		
Blocks, trunnion, right		1		
Brackets, elevating gear, arc pinion	steel, with bolts and screws	1		
Brackets, elevating gear, sliding	metal, with screws ...	1		
Brackets, sliding, sighting gear ...	steel, with screws ...	2		
Buffers, hydraulic:—				
Boxes, stuffing	metal	2		
Caps, rear...	,, ...	2		
Glands, large	,, ...	2		
Glands, small	,, ...	2		
Nozzles, connecting pipe	,, ...	2		
Nut, securing tube ...	,, ...	2		
Packing, hydraulic ...	⅝-inch, square section (length of 8-feet) lengths	1	...	2 per carriage.
Pipe, connecting ...	steel, with fittings ...	1	1 per section of defence.	25 per cent.
Pistons	steel, with rod, piston ring, nut, and pin	2		
Plugs, emptying hole	M.B....	2	2 per section of defence.	25 per cent.
Plugs, filling hole, No 21	steel, with washer, handle, chain, and loop	2	2 ,, ,,	25 ,, ,,
Plungers, controlling running out	M.B., with nut and plug	2	...	1 to 10 or less.
Rings, compressing, packing ...	metal	2	...	2 ,, ,,
Rings, packing ...	leather, L-section ...	2	...	4 per carriage.
Tubes, left	steel...	1		
Tubes, right	,, ...	1		
Valve-keys	M.B., with screw ...	2	...	2 per carriage.
Washers, packing	leather (set of 8) ... set	1	...	2 ,, ,,
Washers, packing, connecting pipe ...	,, (,, 2) ... ,,	1		
Capsquares, left ...	P.B....	1		
Capsquares, right ...	,, ...	1		

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* The percentage of spare held in A.O. Charge is calculated on the total quantity of spare per District in R.A. Charge, and is in addition thereto.

Carriage, Garrison, Barbette, B.L., 9·2-inch (Mark III)—*continued.*

57
Gen. No.
9642

Designation.	Detail.	No.	Proportion of spare. In R.A. Charge.	Proportion of spare. In A O. Charge per District.*
Pins, capsquare	steel, with chain and loop	2	2 per carriage	25 per cent.
Plate, instruction ...	metal, with screws ...	1		
Platforms, side :—				
Boards, left	chequered, with bolts, and screws (set of 4) set	1		
Boards, right	chequered, with bolts, and screws (set of 4) set	1		
Girders, left	steel, with screws ...	1		
Girders, right	,, ,, ,, ...	1		
Ladders, left	,, ,, bolts	1		
Ladders, right	,, ,, ,, ...	1		
Rail, hand, ladder ...	,, ,, ,, and screws	1		
Platforms, sighting :—				
Boards, ladder ...	chequered, with bolts and screws (set of 2) set	1		
Boards, platform, left ...	chequered, with bolts and screws (set of 6)... set	1		
Boards, platform, right	chequered, with bolts and screws (set of 6)... set	1		
Frames, supporting platform boards, left...	steel, with bolts and screws	1		
Frames, supporting platform boards, right	steel, with bolts and screws	1		
Ladder	steel, with bolts and screws	1		
Netting, left	iron, galvanized, with wire (set of 3) set	1		
Netting, right	iron, galvanized, with wire (set of 3) set	1		
Plates, supporting frames, left ...	steel, with bolts and screws	1		
Plates, supporting frames, right	steel, with bolts and screws	1		
Rails, hand, left ...	iron (in 3 parts), with coupling, taper pins, 3 stanchions, and bolts ...	1		
Rails, hand, right ...	iron (in 2 parts), with coupling, taper pin, 3 stanchions, and bolts ...	1		
Stay, angle, supporting left platform	steel, with bolts and screws	1		
Roller, ring :—				
Axles, roller	steel, with lubricating screw, nut, and split key	16	2 per section of defence.	25 per cent.
Bushes, roller	... ...	—	6 per section of defence.	25 ,, ,,
Ring, roller	steel	1		
Rollers, carriage, No. 18	,, ...	16		
Screws, retaining trunnion ball bearings	,, ...	2		
Screws, supporting trunnion ball bearings ...	,, ...	2		

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* *See* footnote * page 424.

Carriage, Garrison, Barbette, B.L., 9·2-inch (Mark III)—*continued.*

57
Gen. No.
9462

Designation.	Detail.	No.	Proportion of spare. In R.A. Charge.	Proportion of spare. In A.O. Charge per District.*
Shield :—				
Brackets, supporting ...	steel, with screws ...	2		
Shield	,, (in 3 parts) with screws	1		
Stays, supporting { left ...	,, with bolts	1		
right ...	,, ,, ,, ...	1		
Slide :—				
Bearings, shaft { 2nd motion, front	metal, with screws ...	1		
rack, pinion { lower	M.B., with bolts	1		
upper	,, ,, ,, ...	1		
Brackets { elevating gear { longitudinal shaft { centre	metal, with screws ...	1		
front	,, ,, ...	1		
1st motion and longitudinal shafts, front ...	metal, with cover, arrow and instruction plates, with screws	1		
elevation indicator	metal, with screws ...	1		
loading gear { sheave ...	steel, with screws ...	2		
spur wheel and pinion	,, ,, bolts	1		
piston rod { left ...	,, ...	1		
right ...	,, ...	1		
supporting { battery	metal, with flap, joint pin, key with chain, and screws	1		
firing key ...	metal, with terminal box, slide, key with chain and screws ...	1		
sights { left ...	steel, with bolts and screws, and 2 adjusting screws, with nut	1		
right ...		1		
traversing gear { cross-shaft { left ...	metal, with bolts and screws	1		
right ...		1		
1st and 2nd motion shafts, front	metal, with screws ...	1		
longitudinal shaft { centre	,, ,, ,, ...	1		
front	,, ,, ,, ...	1		
rear ...	,, ,, bolts ...	1		
yard scale plate ...	,, ,, screws ...	1		
Plates { clip { front ...	steel, with bolts and screws	1		
rear ...	,, ,, screws ...	1		
inscription ...	metal, with screws ...	1		
Slide body, without fittings	steel...	1		
Springs, disc, No. 46 ...	,, (screws supporting ball bearings)	4	4 per section of defence.	25 per cent.
Stops, limiting elevation	wood, with screws ...	1		
Studs, trunnion { left...	steel, with adjusting collar, and locking screws	1		
right		1		

* *See* footnote * page 424.

Carriage, Garrison, Barbette, B.L., 9·2-inch (Mark III)—*continued.*

Designation.	Detail.	No.	Proportion of spare. In R.A. Charge.	Proportion of spare. In A.O. Charge per District.*
Gear, elevating :—				
Arc	steel	1		
Guards, bevel wheels, sliding	metal, with screws	1		
Guards, bevel wheel and pinion	,, ,, ,,	1		
Guards, worm wheel	,, ,, cover plate and screws	1		
Pedestal	cast-iron, with bolts, and cover with screws	1		
Pinions, arc	steel, with spindle, friction rings, disc spring, nut, collars, and keep screw	1	1 per section of defence.	25 per cent.
Pinions, bevel, 2nd motion shaft, rear	steel, 12 teeth	1		
Shafts, 1st motion, front	steel, with nut, collars, and pin	1		
Shafts, 1st motion, rear	,, ,, nuts, collars, and keys	1		
Shafts, 2nd motion, rear	,, ,, nut, collar, and key	1		
Shafts, longitudinal	,, in 2 parts, with nut, collars, pin, and coupling with key	1		
Shafts, worm	steel	1		
Spring, disc, No. 53	,, (elevating arc pinion)	—	1 per section of defence.	25 per cent.
Wheels, bevel, longitudinal shaft, rear	metal, 64 teeth	1		
Wheels, bevel, sliding	,, 19 ,,	1		
Wheels, bevel, worm shaft	,, 19 ,,	1		
Wheels, bevel, 22 teeth, hex. hole	,, with pin	1		
Wheels, bevel, 22 teeth, round ,,	,, ,, ,,	1		
Wheels, hand, front	iron, 24-inch diameter, with handle	1		
Wheels, hand, rear	metal	1		
Wheels, shaft, 1st motion, front	,, 88 teeth, with pin	1		
Wheels, shaft, longitudinal, front	,, 100 teeth	1		
Wheels, worm	,,	1		
Worm	steel	1		
Gear, elevation indicator :—				
Arcs, segment, lower	steel	1		
Arcs, segment, upper	metal	1		
Cone, bracket	steel, with disc spring and nut	1		
Pin, axis, lower segment arc	steel, with pin, collar, nut and key	1		
Plate, yard scale	metal, with screws	1		
Pointer	crown metal	1		
Springs, disc, No. 54	steel (cone bracket)	—	1 per section of defence	25 per cent.
Springs, spiral	,,	1	1 ,, ,,	25 ,, ,,

* *See* footnote * page 424.

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Gen. No.
9642

Carriage, Garrison, Barbette, B.L., 9·2-inch (Mark III)—*continued.*

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Designation.	Detail.	No.	Proportion of spare. In R.A. Charge.	Proportion of spare. In A.O. Charge per District.*
Gear, firing, electric :—				
Cables, electric, D 5	with open washers.			
Lengths 16ft. 0in.		2		
,, 19 ,, 6 ,,		1		
,, 21 ,, 0 ,,		2		
Gear, loading :—				
Arc, raising, arm	steel, with screws	1		
Arm, raising projectile	steel, with 2 pins, connecting rope, with nut and key; 3 rollers, with pin, collar, and key; brackets with screws; spring, retaining tray, with screws; lever, releasing spring, with pin, collar and key; and wood stops, with bolts and screws	1		
Counterweight	cast-iron, with 2 screws	1		
Guard, spur wheel and pinion	metal, with arrow plate, bolts and screws	1		
Handle, winch, No. 10	iron	1	1 per section of defence	25 per cent.
Lever, releasing pawl	steel, with pin	1		
Pawl	steel	1	1 per section of defence	25 per cent.
Pinions 1st motion	steel, with spindle, nuts, collar, and key	1		
Pinions 2nd ,,	steel, with spindle, and 2 keys	1		
Pins axis, raising arm	steel, with nut and key	2		
Pins sheave	,, ,, collar, and key	2		
Rope, wire	,, ,, thimble	2		
Screws, securing axis pins	steel	2		
Sheaves	metal	2	1 per section of defence	25 per cent.
Tray, projectile	,,	1		
Wheel, spur	steel, 38 teeth	1		
Gear, sighting (automatic) :—				
Arc, graduated	metal, with bolts	1		
Bearing, jamming spindle	,, ,, rivets	1		
Bracket adjusting, sights, frame	M.B., with collar, screw, and feather with fixing screw	1		
Bracket cam	metal	1		
Bracket link	,, with bolts	1		
Bracket shaft, rear	,, ,, ,,	1		
Cam	metal	1		
Case, spring	metal, with cap	1		
Clip, retaining sight frame	,, ,, bolts	1		
Drum, adjusting screw	metal, with graduated ring and 3 screws with nuts	1		

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* *See* footnote * page 424.

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Gen. No.
9642

Carriage, Garrison, Barbette, B.L., 9·2-inch (Mark III)—*continued.*

Designation.	Detail.	No.	Proportion of spare.	
			In R.A. Charge.	In A.O. Charge per District.*
Gear, sighting (automatic)—*cont.*:—				
Frame, sights	steel, with plug and set screw	1		
Handle, jamming	steel	1		
Lever adjusting, cam	steel, with collar, nut, and key, and clip with screw and nut	1		
cam, roller	steel, with collar and pin	1		
Link, cam, roller, lever	steel	1		
Nut, adjusting, screw	metal, with rivets	1		
Pin, axis cam, roller, lever	M.B., with nut	1		
link	steel, with nut and key	2		
Plates jamming, stirrup left	steel, with screws	1		
right	...	1		
stop, stirrup left	steel, with rivets	1		
right	,, ,, ,,	1		
Reader, drum	crown metal, with bracket, fixing and stop screws	1		
Roller, cam	P.B.	1		
Screw adjusting sight frame	steel, with nut and key	1		
connecting, spring spindle	steel	1		
Shaft	steel, square, with collars, nuts, and keys	1		
Sights fore	steel, socket, with securing and set screws; pillar, with screw; holder, with acorn point and screw; and sighting blade, with spring, collar and pin	1		
hind	steel, crosshead, with scale plate, with 4 screws, and reader with 2 screws	1		
Spindle jamming	steel, with collar, nuts, and keys	1		
spring	steel, with nut	1		
Spring disc, No. 55	steel (stud hinge)	—	1 per section of defence	25 per cent.
spiral	,,	1	1 ,, ,,	25 ,, ,,
Stirrup, sight frame	,,	1		
Stud, hinge, sight frame	steel, with disc spring, collar, and nuts	1		
Gear, sighting (rocking bar):—				
Bracket, adjusting, sight frame	M.B., with collar and screw	1		
Bush, sight frame	P.B., eccentric	1	1 per section of defence	25 per cent.
Frame, sights	steel, with foresight plug	1		

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* *See* footnote * page 424.

Carriage, Garrison, Barbette, B.L., 9·2-inch (Mark III)—*continued.*

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Gen. No.
9642

Designation.	Detail.	No.	Proportion of spare.	
			In R.A. charge.	In A.O. Charge per District.
Gear, sighting (rocking bar)—*cont.*:—				
Lever, sight frame	M.B., with cap, stud with nuts, pin, and spring, worm wheel bracket with 4 bolts, spring with screw, worm, worm spindle, with 2 nuts, and pin, hand wheel, pinion, and pinion spindle with 2 nuts, and collar with pin, worm wheel, drum with yard scale ring, and 3 screws with nuts, and reader with screws	1		
Lever, shaft, hex, hole	M.B., with pin and cap, with stud, nuts, pin, and spring	1		
Rod, connecting levers, rear	steel	1		
Shaft	steel square, with collars, nut, and keys	1		
Sight, fore	steel, socket, with securing and set screws, pillar with screw, holder with acorn point and screw, and sighting blade with spring collar and pin	1		
Sights, hind	steel; crosshead, with scale plate with 4 screws; reader, with 2 screws; and sight bar, with 2 fixing and 1 set screws, range strip, and stop with 2 screws	1		
Spring, hinge stud, sights frame	steel	—	2 per section of defence.	25 per cent.
Stud, hinge, sights frame	steel; with spring, collar, and nuts	1		
Gear, sighting (automatic and rocking bar):—				
Bearings, sliding brackets	P.B.	4	4 per section of defence.	25 ,, ,,
Levers, shaft, square hole	M.B.; with cap, and stud with nuts, pin, and spring	2	2 per section of defence.	25 ,,
Levers, trunnion stud	M.B.; with pin, and cap with stud, nuts, pin, and spring	2	2 per section of defence.	25 ,, ,,
Rods, connecting levers, front	steel	2		
Springs, stud levers	,,	—	4 per section of defence.	25 ,, ,,

* *See* footnote * page 424.

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Gen. No.
9642

Carriage, Garrison, Barbette, B.L., 9·2-inch, (Mark III)—*continued.*

Designation.				Detail.	No.	Proportion of spare.	
						In R.A. Charge.	In A.O. Charge per District.
Gear, sighting (rocking bar)—*cont.*:—							
Studs, cap levers ...				steel with nuts, and pin	—	4 per section of defence.	25 per cent.
Gear, traversing:—							
Clutch				metal, with key	1		
Guards	bevel wheels, rear...			,, (in 2 parts) with bolts and screws ...	2		
	bevel wheel and pinion	front	lower	metal (in 2 parts) with bolts	1		
			upper	metal, with screws ...	1		
		rear ...		,, (in 2 parts) with screws	1		
	spur wheel and pinion			metal (in 2 parts) with screws	1		
Pedestals	left ...			cast iron, with bearings, covers, screws, and bolts	1		
	right ...				1		
Pinions	bevel, 16-teeth	... ...		metal	1		
		with taper pin		,, ...	2		
	rack			steel, spur, 12-teeth ...	1	1 per section of defence.	25 per cent. *
	2nd motion shaft, front			,, ,, 16 ,, ...	1		
Pointers	traversing, arc			metal, with screw ...	1		
	longitudinal shaft			steel, leather-lined, with clamping screw	1		
Shafts	1st motion	front ...		steel, with nut, collars, and pin	1		
		rear	left...	steel, with nut, collars, and pins	1		
			right	steel, with nuts, collars, and pin	1		
	2nd motion	front ...		steel, with distance collar and pin	1		
		rear	left...	steel, with nut, collars, and pin	1		
			right	steel, with nut, collars, and pin	1		
	cross			steel (in 2 parts) with collars, nuts, and coupling, with key	1		
	longitudinal ...			steel (in 2 parts) with coupling and key ...	1		
	rack, pinion... ...			steel, with collars and nuts	1		
Stops, pointer, longitudinal shaft				steel...	2		
Wheels	bevel	22 teeth	hex. hole	metal, with pin	2		
			round hole	,, ...	6		
		2nd motion shaft, front	...	,, 36 teeth, with pin	1		
			with clutch	,, 36 ,, ...	1		
		longitudinal shaft		,, 36 ,, with pin	1		
	hand	front ...		iron, 36-inch diameter, with handle	1		
		rear... ...		metal, with handle ...	2		
	spur, 40 teeth ...			steel...	1		

* *See* footnote * page 424.

Holdfast, carriage pedestal No. 4a (Mark I) |L|.

Designation.	Detail.	No.
Bolts, holding down	iron, with nut	52
Plates, anchoring	steel	13

Pedestal, carriage, No. 4a (Mark I) |L|.

Designation.	Detail.	No.
Pedestal, without fittings	cast-iron, in 2 pieces	1
Plates, joint	steel, with bolts	2
Racer	,,	1
Rack, traversing	,,	1

Special implements, spanners, &c., *see* Lists at pages 168 to 182.

COMPONENT AND SPARE PARTS FOR CARRIAGES TRAVELLING, B.L. 5-IN. AND 4-IN., WITH LIMBERS.

Components.	Number.		Proportion of Spare per 10 guns or less of each nature.
	5-inch.	4-inch.	
CARRIAGE.			
Axletree, steel, 1st class B, No. 10	1	...	...
Axletree, steel, 1st class B, ,, 11	...	1	...
Bands, steel, axletree, with bolts	1	1	...
Bearings, band, trunnion, hydraulic buffer, metal	2	2	...
Bearings, axletree, steel, left	1	1	...
Bearings, axletree, steel, right	1	1	...
Brackets, metal, with bolts or screws, housing gun, in travelling position, breech	1	...	...
Brackets, metal, with bolts or screws, pinion, spindle, and worm wheel gear, elevating	1	1	...
Brackets, metal, with bolts or screws, spindle, worm, elevating	1	1	...
Brackets, metal, with rivets, housing gun, in travelling position, muzzle	1	1	...
Brackets, metal, with rivets, stays, connecting, hydraulic buffer	2	2	...
Brackets, steel, securing gun in travelling position, right, with bolts	1	1	...
Brackets, steel, securing gun in travelling position, left, with rivets	1	1	...
Brackets, steel, spanner	...	1	...
Brackets, steel, staples, rammer	1	1	...
Buffer, hydraulic	1	1	...
Parts of—			
Bands, trunnion, steel	1	1	...
Caps, steel, front	1	1	...
Caps, steel, rear	1	1	...
Glands, metal, inner	1	1	1
Glands, metal, outer	1	1	1
Nuts, cap, front, steel, with split key	2	2	...
Packing, round, white cotton rope, 2-in. length of 42-in. lengths	1	1	1*

* Per carriage.

Component and Spare Parts for Carriages, Travelling, B.L. 5-in. and 4-in. with Limbers—*continued.*

Components.	Number.		Proportion of Spare per 10 guns or less of each nature.
	5-inch.	4-inch.	
Buffer, hydraulic—*continued.*			
Parts of—*continued*:—			
Piston, steel, with rod...	1	1	...
Plate, instruction, metal, with screws ...	1	1	...
Plug, filling hole, steel, No. 40	1	1	1
Ring, packing, L section, leather	1	1	2*
Shackles, rod, piston, steel, with taper pin	1	1	...
Tubes, steel	1	1	...
Valve, draw off, steel	1	1	1
Washers, packing, filling plug, leather ...	1	1	3*
Capsquares, steel	2	2	1
Carriage, body, without fittings	1	1	...
Chains, iron, drag shoe, No. 1	1	1	...
Chains, iron, securing hydraulic buffer, with loop	1	1	...
Eyes, trail, No. 18...	...	1	...
Eyes, trail, ,, 19...	1	...	...
Guides, elevating arc, metal, with screws ...	1	1	...
Handles, trail, lifting, left	1	1	...
Handles, trail, lifting, right	1	1	...
Hooks, drag shoe, steel, centre...	1	1	...
Hooks, drag shoe, steel, front	2	2	...
Hooks, drag shoe, steel, rear	1	1	...
Keys, capsquares, steel, No. 250	2	...	1
Keys, capsquares, steel, ,, 251	2	...	1
Keys, capsquares, steel, ,, 252	...	2	1
Keys, capsquares, steel, ,, 253	...	2	1
Keys, split flat, bearing band trunnion, hydraulic buffer, steel	2	2	...
Link, chain, securing hydraulic buffer, iron, with loop	1	1	...
Loops, drag chain, iron	1	1	...
Loops, tackle, shifting gun, iron	2	2	...
Pins, joint, side step, steel	4	4	...
Pins, linch, 1st class, steel	2	2	1*
Pins, stays, connecting hydraulic buffer, steel, with keys	2	2	...
Plates, inscription, metal, with screws ...	1	1	...
Plates, loop, lashing rammer, steel, with staples	2	2	...
Plates, lashing handspikes, front, iron ...	1	1	...
Plates, lashing handspikes, rear, iron ...	1	1	...
Rollers, shifting, No. 11...	1	...	...
Rollers, shifting, ,, 12...	...	1	...
Shoe, drag, No. 2	1	1	...
Sockets, brush, steel	1	1	...
Sockets, hammer, steel	2	2	...
Sockets, pincers, steel	1	1	...
Staples, hook, sighting step, steel	2	2	...
Staples, lashing, $\frac{5}{16}$-in., 2-in.	16	16	...
Staples, lashing, $\frac{5}{16}$-in., 1½-in.	14	16	...
Staples, lashing, gun, breech, left	1	...	...
Staples, lashing, gun, breech, right ...	1	...	...
Staples, lashing, gun, muzzle	2	...	...
Staples, spanners, steel	2	...	...
Stays, connecting, hydraulic buffer, steel ...	2	2	...
Stays, tensile, left, steel	1	1	...
Stays, tensile, right, steel	1	1	...
Steps, side, left	1	1	...
Steps, side, right	1	1	...
Steps, sighting	1	1	...

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* Per carriage.

Component and Spare Parts for Carriages, Travelling, B.L. 5-in. and 4-in. with Limbers—*continued.*

Components.	Number.		Proportion of Spare per 10 guns or less of each nature.
	5-inch.	4-inch.	
Straps, securing, leather (set of 17) ... sets (See Table of Service Straps).	1	1	...
57 **Washers,** drag, 1st class B, steel	2	2	1*
Gen. No. 7230 **Wheels,** 1st class B, No. 7...	2	2	1
Gear, elevating—			
Arcs, elevating, steel	1	1	1
Pinions, steel, with spindle and nuts ...	1	1	1
Spindles, worm, steel, collar and nut... ...	1	1	...
Wheels, hand, metal, with handle	1	1	1
Wheels, worm, with friction cone, metal...	1	1	...
LIMBER.			
Axletrees, 2nd class C, No. 92	1	1	...
Bars, splinter, limber, siege, iron	1	1	...
Boxes, grease, 3 lb., tin...	1	1	...
Boxes, limber, wood	1	1	...
Cans, lubricating, No. 5, tin	1	1	...
Keys, limber hook, No. 1, steel, with chain	1	1	...
Keys, socket, outrigger, iron, with chain and loop	1	1	...
Limber, body, iron...	1	1	...
Loops, draught, double	1	1	...
Loops, draught, single, crank	1	1	...
Loops, draught, single, plain	1	1	...
Loops, draught, shoulder	2	2	...
Outriggers, limber, iron	2	2	...
Pins, linch, 2nd class, steel	2	2	1*
Pins, shaft, No. 1 shaft, iron, with key and chain	1	1	1
Pins, shaft, No. 16 ,, iron, with key and chain	1	1	1
Shafts, No. 1 (near)	1	1	1
Shafts, ,, 16 (framed) ... ... pairs	1	1	1
Shafts, ,, 20 (off)...	1	1	1
Sockets, outrigger	2	2	...
Stays, outrigger	2	2	...
Stays, splinter bar...	2	2	...
Straps, securing, leather ... ... sets (See Table of Service Straps.)	1	1	...
Swingletrees, No. 1	2	2	
Washers, loop, 2nd class C	1	1	1
Wheels, 2nd class C, No. 39	2	2	1

* Per carriage.

SLIDES L, B.L.—COMPONENT AND SPARE PARTS FOR (12-INCH TO 6-INCH).

Components.	12-inch Garrison.		10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
	Upper tier.	Lower tier.	Mark I. "C" pivot.	Mark I. "D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
Axles roller, rear, with nuts	...	...	...	...	...	...	...	...	2	...	...	1
Axles roller, manganese, bronze	...	...	...	...	...	...	...	...	...	24	30	...
Axles truck, steel, with collar, and pins, —	...	...	...	...	4	...	...	4	...	...	...	1
Axles truck, steel, with collar, and pins, front	2	2	...	...	...	...	...	...	...	...	...	1
Axles truck, steel, with collar, and pins, rear	2	2	...	...	...	...	...	...	...	...	...	1
Axles truck, steel, with nuts, and split keys, front	...	...	...	2	...	...	2	...	...	...	...	1
Axles truck, steel, with nuts, and split keys, rear	...	...	...	2	...	...	2	...	...	...	...	1
Axles truck, steel, with set screw, rear	...	...	...	...	...	2	...	...	...	...	...	1
Bearings axle drum, brake gear, cast iron, with bolts	2	2	...	...	...	...	...	...	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, screw, brake	2	2	...	...	...	...	...	...	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 1st motion, ...	2	2	...	...	...	...	...	...	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 1st motion, left	...	...	...	...	1	...	...	1	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 1st motion, right	...	...	...	...	1	...	...	1	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 2nd ,, front	...	...	...	...	...	2	...	...	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 2nd ,, rear	...	...	...	...	...	1	...	...	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 2nd ,, —	2	2	...	...	1	...	...	1	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 3rd ,,	1	1	...	...	...	...	...	...	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, shaft, 4th ,,	...	...	...	...	1	...	...	1	...	...	...	...
Bearings metal, elevating, gear, with bolts or screws, spindle, 1st ,,	...	...	...	...	...	1	...	...	...	...	...	...

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* Mark I and Mark IA Slides are the same in all respects as regards component parts, but Mark IA is of slightly different dimensions to Mark to suit the Mark I. gun. *a* denotes the parts which differ in dimensions, and in demanding these parts the Mark of the slide must be quoted to prevent mistakes.

Slides L., B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

38407
Equip.
1692

Components.	12-inch Garrison.		10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
			Mark I.									
	Upper tier.	Lower tier.	"C" pivot.	"D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
Bearings, metal with bolts or screws, loading gear, pinion, spindle	2	1	...	...	...	...	...	...	...	...	...	...
Bearings, metal with bolts or screws, loading gear, shaft, windlass	...	1	...	...	...	...	...	...	...	...	...	...
Bearings, metal with bolts or screws, shaft, cross, brake, gear, —	...	...	...	...	2	...	...	2	...	...	...	...
Bearings, metal with bolts or screws, shaft, cross, brake, gear, left	1	1	...	...	...	...	...	...	...	...	...	...
Bearings, metal with bolts or screws, shaft, cross, brake, gear, right	1	1	...	...	...	...	...	...	...	...	...	...
Bearings, metal with bolts or screws, traversing, gear, shaft, 1st motion	...	...	...	...	2	2	...	2	...	...	...	...
Bearings, metal with bolts or screws, traversing, gear, shaft, 2nd ,,	2	2	...	...	...	2	...	...	...	...	...	...
Bearings, metal with bolts or screws, traversing, gear, shaft, 3rd ,,	1	1	...	...	...	...	...	...	...	...	...	...
Bearings, shaft, training, front, with bolts	...	...	...	...	...	...	...	...	1	...	...	...
Blocks, packing, central transom, iron	...	...	...	...	1	...	...	1	...	...	...	...
Boards, stage, loading, with bolts (set of 7) ... sets	...	...	...	...	...	...	...	...	1	...	...	...
Bolts, foundation, iron, with nuts	...	...	...	...	...	...	...	...	...	...	20	...
Brackets, steel, front, plate, clip	...	...	...	...	...	...	...	...	...	1	...	...
Brackets, steel, front, piston rod, with bolts	...	...	...	...	...	...	...	...	...	...	1	...
Brackets, cast-iron, rear, flange, with bolts, front, left	1	...	...	...	...	...	...	...	...	...	...	...
Brackets, cast-iron, rear, flange, with bolts, front, right	1	...	...	...	...	...	...	...	...	...	...	...
Brackets, cast-iron, rear, flange, with bolts, rear	2	...	...	...	...	...	...	...	...	...	...	...
Brackets, cast-iron, shaft, windlass	1	...	...	...	...	...	...	...	...	...	...	...
Brackets, iron, with bolts or screws, buffer	2	2	...	...	...	...	...	...	...	...	...	...
Brackets, iron, with bolts or screws, cylinder, spring gear, retaining	...	...	...	...	...	...	...	...	1	...	...	...
Brackets, iron, with bolts or screws, elevating, gear, shaft, 1st motion	...	...	...	...	1	...	...	1	...	...	...	...
Brackets, iron, with bolts or screws, elevating, gear, shaft, 2nd ,,	...	...	...	...	1	...	...	1	...	...	...	...
Brackets, iron, with bolts or screws, elevating, gear, shaft, 3rd ,, left	...	...	...	...	1	...	...	1	...	...	...	...
Brackets, iron, with bolts or screws, elevating, gear, shaft, 3rd ,, right	...	...	...	...	1	...	...	1	...	...	...	...

.. 1692	Brackets, iron, with bolts or screws, elevating gear, *shaft, 4th motion, left	...	...	...	...	1	...	...	1	...	...	...	...
	right	...	...	...	...	1	...	...	1	...	...	...	...
	gudgeon, lever, brake	2	2	...	...	...	...	...	...	...	...	...	...
	guide, with caps, elevating, left	1	1	...	...	...	...	...	...	...	...	...	...
	right	1	1	...	...	...	...	...	...	...	...	...	...
	rammer	...	...	...	...	...	1	...	...	...	...	...	...
	housing, pump, lever, front	...	...	...	...	...	1	...	...	...	...	...	...
	rear	...	...	...	...	...	1	...	...	...	...	...	...
	pawl, lever, brake	2	2	...	...	...	...	...	...	...	...	...	...
	rod, releasing, gear, loading	...	...	...	...	1	...	...	1	...	...	...	...
	screw, adjusting, chain, front	2	2	...	...	...	...	...	...	...	...	...	...
	rear	2	2	...	...	...	...	...	...	...	...	...	...
	spindle, buffer, front	...	...	...	...	...	...	...	...	...	...	2	...
	rear	2	2	...	...	1	...	...	1	...	...	...	...
	—	...	...	...	...	...	...	...	...	4	...	...	...
	step	3	3	...	...	...	...	...	...	...	...	...	...
	stop, guide, elevating	1	1	...	...	...	...	...	...	...	...	...	...
	shaft, elevating, 3rd motion	1	1	...	...	...	...	...	...	...	...	...	...
	supporting, bracket, pointer	...	...	1	1	...	1	1	...	1	...	...	...
	derrick, cartridge	...	...	...	...	...	1	...	...	...	...	...	...
	rammer	...	...	...	...	...	2	...	...	...	...	...	...
	step, stage, loading, front	...	...	...	...	...	1	...	...	...	...	...	...
	rear	...	...	...	...	...	1	...	...	...	...	...	...
	yoke, left	1	1	...	...	...	...	...	...	...	...	...	...
	right	1	1	...	...	...	...	...	...	...	...	...	...
	traversing, gear, shaft, 1st motion	...	...	...	...	1	...	...	1	...	...	...	...
	2nd ,, front	...	...	1	...	1	...	...	1	...	...	...	...
	rear	...	...	1	...	1	...	...	1	...	...	...	...
	...	...	...	1	...	...	...	...	...	...	...	...	...
	3rd ,, front	...	...	...	...	2	1	...	2	...	...	...	...
	rear	...	...	...	...	...	1	...	...	...	...	...	...
	rear, left	...	...	...	...	1	...	...	1	...	...	...	...
	right	...	...	...	...	1	...	...	1	...	...	...	...
	4th ,, rear, left	...	...	...	...	1	...	...	1	...	...	...	...
	right	...	...	...	...	1	...	...	1	...	...	...	...
	left	...	...	...	...	...	1	...	...	...	...	...	...
	right	...	...	...	...	...	1	...	...	...	...	...	...
	iron, stage, loading	...	...	...	...	...	4	...	...	...	...	...	...
	M.C.I., or steel, with bolts or screws, brake, gear, loading	...	...	...	...	...	1	...	...	...	...	...	...

* *See* note * page 435.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.		10-inch barbette.				9·2 inch barbette		8-inch.	6-inch.		Spare.
	Upper tier.	Lower tier.	Mark I. "C" pivot.	Mark I. "D" pivot.	Mark II.	Mark III.	Mark I and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
Brackets, M.C.I., or steel, with bolts or screws, derrick, loading, lower	...	...	...	...	...	1	...	...	...	...	...	...
upper	...	...	...	...	...	1	...	...	...	...	...	...
1st motion shaft, elevating gear, metal, with screws	...	...	...	...	1	1	...	1	...	...	...	...
2nd motion shaft elevating gear, centre, metal, with screws	...	...	...	...	1	...	...	1	...	...	...	...
front or centre, metal	...	...	...	...	...	2	...	...	...	...	...	...
front, metal, with screws	...	...	...	...	1	...	...	1	...	...	...	...
rear	...	...	...	...	1	1	...	1	...	...	...	...
metal, with bolts or screws, adjusting, hydraulic, gear, buffer, levers, adjusting, left	...	...	...	...	1	...	...	1	...	...	...	...
right	...	...	...	...	1	...	...	1	...	...	...	...
spindle, worm	...	...	...	...	1	...	...	1	...	...	...	...
wheel, worm	...	...	...	...	1	...	...	1	...	...	...	...
apparatus, withdrawing breech screw	1	1	...	...	...	...	...	...	...	...	...	...
brake, gear, cramp	...	...	...	...	1	...	...	1	...	...	...	...
loading	...	...	...	...	1	...	...	1	...	...	...	...
shaft, cross, —	...	...	...	...	1	...	...	1	...	...	...	...
left	1	1	...	...	...	...	...	...	...	...	...	...
right	1	1	...	...	...	...	...	...	...	...	...	...
thrust, left	1	1	...	...	...	...	...	...	...	...	...	...
right	1	1	...	...	...	...	...	...	...	...	...	...
carrying, loading, tray	...	...	...	...	...	...	...	...	...	2	...	...
elevating gear, cramp, brake, front	1	1	...	...	...	...	...	...	...	...	...	...
rear	1	1	...	...	...	...	...	...	...	...	...	...
shaft, 3rd motion, with caps	1	1	...	...	...	...	...	...	...	...	...	...
extractor	...	...	...	...	...	...	...	...	...	...	...	...

Brackets	38107 Equipment 1692	metal, with bolts or screws	firing, key	upper	...	...	...	1	1	...	...	1	...	...	...	...	...
				lower	...	...	...	1	1	...	...	1	...	...	...	...	...
			guide, derrick, cartridge		...	...	...	...	...	...	1	...	...	...	...	...	...
			loading, gear	derrick, lower	...	1	1	...	...	1	...	...	1	...	...	...	...
				derrick, upper	...	1	1	...	...	1	...	...	1	...	...	...	...
				guide, rod, releasing	...	...	...	...	...	1	1	...	1	...	...	...	...
				sheave	...	1	1	...	...	...	...	...	...	...	...	...	...
			rimer		...	...	...	...	...	...	...	...	...	...	1	...	...
			rod, releasing, gear, loading		...	...	...	...	...	...	1	...	...	...	...	...	...
			shaft	crank, gear, lifting, hydraulic, inner	...	...	...	...	...	1	1	...	1	...	...	...	...
				crank, gear, lifting, hydraulic, outer	...	...	...	...	...	1	1	...	1	...	...	...	...
				2nd motion, traversing, gear	...	...	...	...	...	...	1	...	...	...	...	...	...
			shafts, worm	inside	...	...	...	...	...	...	...	...	...	2	...	...	...
				outside	...	...	...	...	...	...	...	...	...	2	...	...	...
			supporting	battery, with flap and key	...	...	...	...	...	...	1	...	...	...	1	...	...
				firing key	...	...	...	...	...	...	1	...	...	...	...	...	...
				piston rod	...	...	...	...	...	...	2	...	...	...	...	...	...
			tube, box		...	...	...	...	...	...	...	...	...	...	1	...	...
			traversing, gear	chain, endless, left	...	1	1	...	...	...	...	...	...	...	...	...	...
				chain, endless, right	...	1	1	...	...	...	...	...	...	...	...	...	...
				shaft, 4th motion, front	...	1	1	...	...	...	...	...	...	...	...	...	...
				shaft, 4th motion, rear	...	1	1	...	...	...	...	...	...	...	...	...	...
		spindle, buffer			...	...	...	...	...	...	...	...	...	4	...	...	...
		metal, with bolts or screws, traversing gear shaft, traversing		centre	...	1	1	...	...	...	...	...	...	...	...	...	...
				front	...	1	1	...	...	...	...	...	...	1	...	...	...
				rear	...	1	1	...	...	...	...	...	...	1	...	...	...
	38407 Equip. 1692	steel, with bolts or screws	angle, stage, loading	left	...	...	...	...	...	...	...	...	...	1	...	...	...
				right	...	...	...	...	...	...	...	...	...	1	...	...	...
			bar, elevating	left	...	...	...	...	...	1	...	...	1	...	...	...	...
				right	...	...	...	...	...	1	...	...	1	...	...	...	...
			buffer		...	...	...	2	2	...	...	...	...	...	...	...	...
			fixing pump, gear lifting hydraulic		...	...	...	...	...	...	1	...	...	...	...	...	...
			pivot, with bush		...	...	...	...	...	...	...	...	...	...	1	...	...
Bush, metal, pivoting slide, with bolts					...	...	...	...	...	...	...	...	...	1	...	...	...
Bushes, metal, shaft, training				in girders	...	...	...	...	...	...	...	...	...	...	2	...	...
				in transom	...	...	...	...	...	...	...	...	...	...	2	...	...
Buffers		front, consisting of		2 spindles and keys, with disc springs	...	...	...	...	...	1	...	...	1	...	...	...	...
				2 brackets, 2 springs, 2 spindles, with nut and pin	...	...	...	...	...	...	...	...	...	...	...	2	...
		front, including bracket, springs, disc, and spindle			...	...	...	...	...	...	1	...	...	...	...	...	...
		hydraulic, preventing, jump			...	...	...	...	...	1	...	...	1	...	...	...	...

* *See* note * page435.

[Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.		10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
			Mark I.									
	Upper tier.	Lower tier.	"C" pivot.	"D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
Buffers rear, consisting of 1 bracket, spindle and key, with disc springs	...	...	...	...	2	...	...	2	...	...	...	...
Buffers rear, consisting of 1 bracket, spindle, with nut, with disc springs	2	2	...	...	...	...	...	...	...	...	...	...
Buffers rear, including stops, springs, disc, and spindles	...	...	...	...	...	2	...	...	...	...	...	...
Cable, connecting battery with circuit connector ... lengths	...	...	...	...	...	2	...	...	...	...	...	...
Carriages, under, steel, trucks, front	...	...	...	...	1	...	...	1	...	...	...	...
Carriages, under, steel, trucks, rear	...	...	...	...	1	...	...	1	...	...	...	...
Clips, steel, holding down, with pin	...	...	...	...	1	...	...	1	...	...	...	...
Counterweights, cast-iron, rear, left	...	...	...	...	...	1	...	...	...	...	...	...
Counterweights, cast-iron, rear, right	...	...	...	...	...	1	...	...	...	...	...	...
Covers, steel, live roller ring, with bolts, in 3 pieces	...	...	...	...	...	...	...	...	...	2	...	...
Covers, steel, live roller ring, with bolts, left	...	...	...	...	...	...	...	...	...	...	2	...
Covers, steel, live roller ring, with bolts, right	...	...	...	...	...	...	...	...	...	...	2	...
Flanges, roller, rear, left	...	...	...	...	...	...	...	...	1	...	...	...
Flanges, roller, rear, right	...	...	...	...	...	...	...	...	1	...	...	...
Flanges, truck, iron, front, left	1	1	...	...	...	...	...	...	...	...	...	...
Flanges, truck, iron, front, right	1	1	...	...	...	...	...	...	...	...	...	...
Flanges, truck, iron, rear, left	1	1	...	...	...	...	...	...	...	...	...	...
Flanges, truck, iron, rear, right	1	1	...	...	...	...	...	...	...	...	...	...
Flanges, truck, steel, front, left	...	...	...	1	...	...	1*a*	...	...	...	...	...
Flanges, truck, steel, front, right	...	...	...	1	...	...	1*a*	...	...	...	...	...
Flanges, truck, steel, rear	...	...	...	2	...	...	2*a*	...	...	...	...	...
Frames, supporting platform, rear, steel	...	...	...	...	1	...	...	1	...	...	...	...
Flaps, metal, bracket, firing key, lower	...	...	1	1	...	...	1	...	...	...	...	...
Girders, M. cast steel, left	...	...	...	...	...	...	...	...	...	1	...	...
Girders, M. cast steel, right	...	...	...	...	...	...	...	...	...	1	...	...
Girders, supporting slide, front, rear, steel, with upper roller path, segments, and bolts	...	...	1	...	...	...	...	...	...	...	...	...
Guards, roller ring, steel, with oil hole covers, bolts and screws (set of 10) ... sets	...	...	1	...	...	...	...	...	...	...	...	...
Gudgeons, steel, rollers, guide, with collar and key	...	...	...	...	...	6	...	...	...	...	...	...

Keys	split, round, L head, pinion shaft, traversing ·5″ × 6·5″	...	...	...	...	...	...	...	...	...	...	2	6
	split, round, loop head, axles, roller ·1875″ × 2·5″	...	...	...	...	...	...	...	...	...	...	30	12
	split, round, loop head, pin, link, connecting, gear, retaining ·12″ × 1·0″	...	...	...	...	...	...	...	...	...	...	2	12
	split, round, loop head, spindle, spring, tripper, gear, retaining ·25″ × 3·5″	...	...	...	...	...	...	...	...	...	...	3	12
	split, round, loop head, loops, traversing ·25″ × 4·0″	...	...	...	...	...	...	...	...	...	...	...	2†
	wrought iron, flap, with chain, bracket, firing key, lower	...	...	1	1	...	...	1	...	...	...	...	...
Ladders, iron, with bolts	platform, sighting	...	...	...	...	...	1	...	...	...	...	...	...
	stage, loading	...	...	...	...	...	1	...	...	...	...	...	...
	—	...	...	...	...	...	...	...	...	1	...	...	...
38407 Equip. 1692	...	...	...	...	...	...	...	...	...	2	...	2	...
Loops	iron, guide rope, rammer	...	...	2	2	...	...	2	...	...	...	...	...
	iron, plate pivot	...	...	...	...	...	1	...	...	...	...	...	...
	iron, with nuts	...	...	...	...	4	...	...	4	...	...	...	...
	iron, with nut and key	4	4	...	...	...	...	...	...	...	...	...	...
	steel	...	...	...	...	...	...	...	...	...	2	2	...
	steel, with nuts	...	...	...	...	...	4	...	...	...	...	...	...
Nuts, steel, axle, roller	...	...	...	...	...	...	...	...	...	...	24	...	...
Pins	securing, rear frame, steel, with set screws, upper	...	...	...	...	2	...	...	2	...	...	...	1
	securing, rear frame, steel, with set screws, lower	...	...	...	...	2	...	...	2	...	...	...	1
	wrought iron flap, with nut, bracket, firing key, upper	...	...	1	1	...	...	1	...	...	...	...	...
	wrought iron flap, with nut, bracket, firing key, lower	...	...	1	1	...	...	1	...	...	...	...	...
	steel, pivot, with screws	...	...	...	...	...	...	...	...	...	1	...	...
	steel, connecting rear, with set screw, lower	...	...	...	...	...	2	...	...	...	...	...	...
	steel, connecting rear, with set screw, upper	...	...	...	...	...	2	...	...	...	...	...	...
Plates	arrow, metal...	...	...	...	...	...	...	2	...	...	...	...	...
	arrow, No. 4, metal, with screws	...	...	...	...	1	...	...	1	...	...	...	...
	bottom, steel	...	...	...	...	...	...	...	...	...	1	...	...
	bearing ladder, steel	...	...	...	...	...	...	...	...	1	...	...	...
	clip, steel, with bolts, —	...	...	...	2	...	...	2	...	...	...	...	1
	clip, steel, with bolts, front	...	...	...	...	...	...	...	...	...	1	1	1‡
	clip, steel, with bolts, rear	...	...	...	...	...	...	...	...	...	1	...	...
	clip, steel, with screws	...	...	2	...	...	...	...	...	...	...	...	...
	cover, front, steel with bolts, left	...	...	...	...	...	...	...	...	...	...	1	...
	cover, front, steel with bolts, right	...	...	...	...	...	...	...	...	...	...	1	...
	foot, roller ring guard, centre, inner...	...	...	2	...	...	...	...	...	...	...	...	...
	foot, roller ring guard, centre, outer, with packing plate and upper roller path, segment, iron chequered, with screws	...	...	2	...	...	...	...	...	...	...	...	...
	foot, roller ring guard, front, left, iron chequered, with screws	...	...	1	...	...	...	...	...	...	...	...	...
	foot, roller ring guard, front, right, iron chequered, with screws	...	...	1	...	...	...	...	...	...	...	...	...
	foot, roller ring guard, rear, left, iron chequered, with screws	...	...	1	...	...	...	...	...	...	...	...	...
	foot, roller ring guard, rear, right, iron chequered, with screws	...	...	1	...	...	...	...	...	...	...	...	...
	foundation bolts, cast iron, with iron strap with bolts	...	...	...	...	...	...	...	...	...	...	20	...
	packing, ladder, steel	...	...	...	...	2	...	...	2	...	...	...	...
	packing, bracket 2nd motion shaft	...	...	...	...	1	...	...	1	...	...	...	...

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* *See* note * page 435.

† For 6″ Vavasseur Central Pivot.

‡ For 6″ barbette only.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued*.

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S. Leone
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Components.	12-inch Garrison. Upper tier.	12-inch Garrison. Lower tier.	10-inch barbette. Mark I. "C" pivot.	10-inch barbette. Mark I. "D" pivot.	10-inch barbette. Mark II.	10-inch barbette. Mark III.	9·2 inch barbette. Mark I. and IA.*	9·2 inch barbette. Mark II.	8-inch. Barbette.	6-inch. Vavasseur central pivot.	6-inch. Barbette.	Spare. Fort or Battery per 10 guns or less No. of each nature.
Plates, pivot, M. cast steel	...	...	...	...	...	...	...	...	...	1	...	...
Plates, pivot, steel	...	...	...	...	...	1	...	...	...	...	...	...
Plates, iron, angle, retaining, tray, loading, left	...	...	...	...	...	1	...	...	...	...	...	...
Plates, iron, angle, retaining, tray, loading, right	...	...	...	...	...	1	...	...	...	...	...	...
Platforms, wood, sighting, rear	...	...	...	...	...	1	...	...	...	...	...	...
Pointers ...	...	...	...	...	...	...	...	...	...	1	1	...
Pointers, steel, No. 1, with metal bracket and bolts	...	...	1	1	1	1	1	1	1	...	...	...
Pointers ,, ,, 2, ,, ,,	1	1	...	...	...	...	...	...	...	...	...	...
Racks, training (10 segments), 160 teeth, with bolts	...	...	...	...	...	...	...	...	...	...	1	...
Rails, iron, hand, ladder, platform, sighting	...	...	...	...	...	1	...	...	...	...	...	...
Rails, iron, hand, platform, sighting, rear, with stanchions	...	...	...	...	...	1	...	...	...	...	...	...
Rails, iron, hand, stage, loading, with stanchions	...	...	...	...	...	1	...	...	1	...	...	...
Rings, india-rubber	...	...	...	...	...	...	...	...	...	...	...	†
Rings, roller, steel	...	...	...	...	...	...	...	...	...	1	1	...
Roller, paths, steel, front	...	...	...	...	...	...	...	...	...	1	...	...
Roller, paths, steel, rear	...	...	...	...	...	...	...	...	...	1	...	...
Rollers, rear, No. 53	...	...	...	...	...	...	...	...	2	...	...	...
Rollers, steel	...	...	...	...	...	...	...	...	...	24	30	...
Rollers, steel, guide	...	...	...	...	...	6	...	...	...	...	...	...
Racers, steel, clip ring combined	...	...	...	...	...	...	...	...	...	...	1	...
Racers, steel, upper, front	...	...	...	...	...	...	...	...	...	...	1	...
Racers, steel, upper, rear	...	...	...	...	...	...	...	...	...	...	1	...
Roller, ring—												
Axles, steel, with nut and split key	...	...	36	...	...	...	...	...	...	...	...	...
Ring, steel, with joint screws	...	...	1	...	...	...	...	...	...	...	...	...
Rollers, slide, No. 52	...	...	36	...	...	...	...	...	...	...	...	...

Screws, metal, lubricating $\frac{5}{16}''$ diam. × $\frac{3}{8}''$	...	...	...	...	...	...	...	...	...	...	6	12
Slides, body, without fittings	1	1	1	1	1	1	1*a*	1	1	...	1	...
Spindles, buffer, iron, with nuts	2	2	...	...	...	...	...	...	...	...	...	1
Spindles, buffer, iron, with keys, front	...	...	...	...	2	...	...	2	...	...	...	1
Spindles, buffer, iron, with keys, rear	...	...	...	...	2	...	...	2	...	...	...	1
Spindles, buffer, steel, with nuts and split keys	...	...	2	2	...	...	2	...	...	...	...	...
Spindles, buffer, steel, with collar nut and split key, front	...	...	...	...	...	...	...	...	2	...	...	...
Spindles, buffer, steel, with collar nut and split key, rear	...	...	...	...	...	...	...	...	2	...	...	...
Spindles, buffer, steel, with nuts and split key, front	...	...	...	...	...	2	...	...	...	...	...	1
Spindles, buffer, steel, with nuts and split key, rear	...	...	...	...	...	2	...	...	...	...	...	1
Spindles, buffer, with nut and key	...	...	...	...	...	...	...	...	...	...	2	...
Springs, buffer, spindle, steel, volute	...	...	2	2	...	...	2	...	...	...	...	...
Springs, disc, No. 1, with radius	...	...	...	...	4	...	...	4	...	...	...	2
Springs, disc, No. 1, without ,,	...	...	...	...	36	...	...	36	...	...	...	18
Springs, disc, ,, 2, with ,,	2	2	...	...	...	...	...	...	...	...	...	1
	...	...	...	...	...	4	...	...	...	...	...	2
Springs, disc, ,, 2, without ,,	22	22	...	...	...	...	...	...	...	...	...	11
	...	...	...	...	...	36	...	...	...	...	...	18
Springs, disc, ,, 7	...	...	...	...	...	...	...	...	...	...	34	3
Springs, disc, ,, 8	...	...	...	...	...	...	...	...	20	...	...	10
Springs, disc, ,, 9	...	...	...	...	...	...	...	...	32	...	...	16
Stages, loading, centre	...	...	...	...	...	1	...	...	...	...	...	...
Stages, loading, side	...	...	...	...	...	1	...	...	...	...	...	...
Stages, laying, wood, with hand rail, and steps	...	...	...	...	...	...	...	...	1	...	...	...
Steps, wood, side, stage, loading	...	...	...	...	...	1	...	...	...	...	...	...
Stays, iron, stage, loading, side, front	...	...	...	...	...	1	...	...	...	...	...	...
Stays, iron, stage, loading, side, rear	...	...	...	...	...	1	...	...	...	...	...	...
Stays, block, pivot	...	...	...	...	2	...	...	2	...	...	...	...
Stays, wrought-iron, ladder, with bolts	...	...	...	...	...	...	...	...	2	...	...	...
Supports, angle, steel, cover plates, with bolts (pairs)	...	...	...	...	...	...	...	...	...	...	2	...
Trucks, steel, front, with spur wheel	...	...	...	2	...	...	2	...	...	...	...	...
Trucks, steel, slide, front, ...	...	...	...	...	2	2	...	2	...	...	...	...
Trucks, steel, slide, front, No. 1	2	2	...	...	...	...	...	...	...	...	...	...
Trucks, steel, slide, front, —	...	...	...	...	2	2	...	2	...	...	...	...
Trucks, steel, slide, rear, No. 51	...	2	...	...	...	...	...	...	...	...	...	...
Trucks, steel, slide, rear, ,, 52	2	...	...	...	...	...	...	...	...	...	...	...
Trucks, steel, rear	...	...	...	2	...	...	2	...	...	...	...	...
Transoms, M. cast steel, rear	...	...	...	...	...	...	...	...	...	1	...	...
Washers, bearing, stanchions, with rivets	...	...	...	...	...	...	...	...	8	...	...	...

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* *See* note * page 435.

‡ 8 for 8′ barbette.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.	10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
		Mark I.									
		"C" pivot.	"D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
APPARATUS, WITHDRAWING, BREECH-SCREW.‡											
Arms, steel, with collar and nut	1	...	...	...	...	...	...	...	...	...	...
Balls, revolving, arm, steel...	17	...	...	...	...	...	...	...	...	...	6
Bolts { adjusting, spring, lever catch, iron, with pin and key	1	...	...	...	...	...	...	...	...	...	...
locking, steel, with nut	1	...	...	...	...	...	...	...	...	...	...
Brackets { metal { bolt { adjusting, spring, lever catch, with screws	1	...	...	...	...	...	...	...	...	...	...
locking	1	...	...	...	...	...	...	...	...	...	...
screw, withdrawing, with guide locking bolt and screws	1	...	...	...	...	...	...	...	...	...	...
W.I., retaining arm with bracket metal spring catch	1	...	...	...	...	...	...	...	...	...	..
Collars, packing arm, metal†	1	...	...	...	...	...	...	...	...	...	...
Handles { bolt, locking, iron	1	...	...	...	...	...	...	...	...	...	...
screw, withdrawing, iron	1	...	...	...	...	...	...	...	...	...	...
Levers, catch, steel, with pins, collar and split keys	1	...	...	...	...	...	...	...	...	...	...
Plates, packing arm, metal†	1	...	...	...	...	...	...	...	...	...	...
Plugs, jamming, locking bolt, steel	1	...	...	...	...	...	...	...	...	...	...
Screws { adjusting, spring, plug, locking bolt, metal	1	...	...	...	...	...	...	...	...	...	...
withdrawing, iron, with collar and nut	1	...	...	...	...	...	...	...	...	...	...
Springs { bolt, retaining arm, steel	1	...	...	...	...	...	...	...	...	...	2
spiral steel { plug, locking bolt	1	...	...	...	...	...	...	...	...	...	2
lever catch	1	...	...	...	...	...	...	...	...	...	2

GEAR, ADJUSTING, HYDRAULIC, BUFFER.

Levers, adjusting, rods, piston, iron, with screws	...	...	...	2	...	...	2	...	...	...	...
Rods, connecting, levers, adjusting, iron	...	...	...	1	...	...	1	...	...	...	...
Spindles, iron wheel, worm	...	...	...	1	...	...	1	...	...	...	...
worm	...	...	...	1	...	...	1	...	...	...	...
Wheels, worm iron	...	...	...	1	...	...	1	...	...	...	...

GEAR, BRAKE.

Axles, drum, brake, iron, with collar and pin	1	...	...	...	...	...	...	...	...	...	...
Bands, friction, steel left	1	...	...	...	...	...	...	...	...	...	...
right	1	...	...	...	...	...	...	...	...	...	...
Counterweights, lever brake, iron, with bolt and nut	2	...	...	...	...	...	...	...	...	...	...
Cramps, brake, iron	...	...	...	1	...	...	1	...	...	...	...
Drums, brake, iron, with screws left	1	...	...	...	...	...	...	...	...	...	...
right	1	...	...	...	...	...	...	...	...	...	...
Levers, iron brake	2	...	...	...	...	...	...	...	...	...	...
brake band	1	...	...	...	...	...	...	...	...	...	...
rod, connecting, with pin front	...	...	...	1	...	...	1	...	...	...	...
rear	...	...	...	1	...	...	1	...	...	...	...
shaft cross	...	...	...	2	...	...	2	...	...	...	...
left	1	...	...	...	...	...	...	...	...	...	...
right	1	...	...	...	...	...	...	...	...	...	...
Links, connecting, iron, with pins, nuts and keys	2	...	...	...	...	...	...	...	...	...	...
Pawls, lever, brake, iron	1	...	...	...	...	...	...	...	...	...	...
Pins bands, friction, steel, with key	2	...	...	...	...	...	...	...	...	...	...
lever, brake, steel	2	...	...	...	...	...	...	...	...	...	...
pawl, iron, with collar and key	1	...	...	...	...	...	...	...	...	...	...
Rods, connecting, levers, iron	...	...	...	1	...	...	1	...	...	...	...
Screws, cramp, iron, with collar and nut	...	...	...	1	...	...	1	...	...	...	...
Shafts cross, iron, with nuts	...	...	...	1	...	...	1	...	...	...	...
steel	1	...	...	...	...	...	...	...	...	...	...
Sockets, band, friction, iron	2	...	...	...	...	...	...	...	...	...	...
Stops, lever, iron haft, cross	...	...	...	2	...	...	2	...	...	...	...
with screw and nut	2	...	...	...	...	...	...	...	...	...	...
Wheels, sprocket, iron	1	...	...	...	...	...	...	...	...	...	...

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* *See* note * page 435.

† For R.G.F. guns only.

‡ For working the guns by hand in the event of a breakdown in the hydraulic gear

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.	10-inch barbette. Mark I. "C" pivot.	10-inch barbette. Mark I. "D" pivot.	10-inch barbette. Mark II.	10-inch barbette. Mark III.	9·2-inch barbette Mark I. and IA.*	9·2-inch barbette Mark II.	8-inch. Barbette.	6-inch. Vavasseur central pivot.	6-inch. Barbette.	Spare. Fort or Battery, per 10 guns or less No. of each nature.
GEAR, ELEVATING.											
Arcs, elevating, steel	...	...	...	...	...	...	...	...	...	1†	...
Brackets, metal, with bolts, 1st motion, side	...	...	...	...	...	...	...	...	...	1	...
Brackets, metal, with bolts, 1st and 2nd motion, combined, rear	...	...	...	...	...	...	...	...	...	1	...
Brackets, metal, with bolts, 2nd motion, front	...	...	...	...	...	...	...	...	...	1	...
Brackets, metal, with bolts, 3rd motion, arc, elevating	...	...	...	...	...	...	...	...	...	1	...
Bands, stop, iron, with screw	1	...	...	...	...	...	...	...	...	...	...
Bars, elevating, with arc	...	...	...	1	...	...	1	...	...	...	...
Blocks guide, metal	2	...	...	...	...	...	...	...	...	...	...
Blocks sliding, bar, elevating, steel	...	...	...	1	...	...	1	...	...	...	...
Bolts, cramp, brake, iron	1	...	...	...	...	...	...	...	...	...	...
Cases, spring, shaft, 3rd motion, metal	1	...	...	...	...	...	...	...	...	...	...
Chains, endless, steel	...	...	...	1	...	...	1	...	...	...	...
Cones, friction, spur, wheel, metal, inside	1	...	...	...	...	...	...	...	...	...	..
Cones, friction, spur, wheel, metal, outside	1	...	...	...	...	...	...	...	...	...	...
Cramps, brake, iron	1	...	...	...	...	...	...	...	...	...	...
Guards, wheel, spur and pinion, left	1	...	...	...	...	...	...	...	...	...	...
Guards, wheel, spur and pinion, right	1	...	...	...	...	...	...	...	...	...	...
Guides arc, elevating, metal, with bolts	...	...	...	...	...	...	...	...	...	1	...
Guides with arc, steel	1	...	...	...	...	...	...	...	...	...	...
Nuts, adjusting, spring, shaft, 3rd motion, metal	1	...	...	...	...	...	...	...	...	...	...

Pinions, spur, iron, 2nd motion, shaft, 12 teeth	...	...	...	1	...	...	1	...	...	...	...
Pinions, spur, iron, 3rd motion, shaft, 12 teeth	...	...	...	1	...	...	1	...	...	...	...
Pinions, spur, metal, 3rd motion, 11 teeth	1	...	...	...	...	...	...	...	...	...	...
Pinions, spur, steel, 4th motion, 11 teeth	...	...	...	1	...	...	1	...	...	...	...
Pinions, steel, with spindle, with nut, pin and key	...	...	...	...	...	...	...	...	...	1	...
Pinions, steel, with spindle ...	1	...	...	...	...	...	...	...	...	...	...
Pinions, steel, with spindle, 2nd motion, 10 teeth	1	...	...	...	...	...	...	...	...	...	...
Pins, steel, connecting, block, sliding, bar, elevating, with collar and key	...	...	...	1	...	...	1	...	...	...	1
Pins, steel, joint, with collar and pin, bar, elevating	...	...	...	1	...	...	1	...	...	...	1
Plugs, jamming, brake, steel	2	...	...	...	...	...	...	...	...	...	2
Pointers, metal, indicator, with bolts	...	...	...	...	...	...	...	...	...	1	...
Screws, metal, lubricating hole	...	...	...	...	...	...	...	...	...	6	...
Screws, jamming, brake, steel, with collar and nut, long	1	...	...	...	...	...	...	...	...	...	...
Screws, jamming, brake, steel, with collar and nut, short	1	...	...	...	...	...	...	...	...	...	...
Shafts, iron, 1st motion, with collars and nuts	...	...	...	1	...	...	1	...	...	...	...
Shafts, iron, 1st motion, with coupling, collars and nuts	1	...	...	...	...	...	...	...	...	...	...
Shafts, iron, 2nd motion ...	...	...	...	1	...	...	1	...	...	...	...
Shafts, iron, 3rd motion ...	...	...	...	1	...	...	1	...	...	...	...
Shafts, iron, 3rd motion, with coupling and nuts	1	...	...	...	...	...	...	...	...	...	...
Shafts, iron, guide, with collars and pins	1	...	...	...	...	...	...	...	...	...	...
Shafts, steel, 1st motion, hand, wheel, with collar, pin and key, vertical	...	...	...	...	...	...	...	...	...	1†	...
Shafts, steel, 1st motion, hand, wheel, with collar, pin and key, cross	...	...	...	...	...	...	...	...	...	1	...
Shafts, steel, 2nd motion, with collars and nuts	1	...	...	...	...	...	...	...	...	...	...
Shafts, steel, 4th motion, with coupling and nut	...	...	...	1	...	...	1	...	...	...	...
Shafts, steel, worm, 2nd motion, with collar and pin	...	...	...	...	...	...	...	...	...	1	...
Spindles, gudgeon, wheel, guide, chain, endless, iron, with collar and key	...	...	...	1	...	...	1	...	...	...	...
Springs, steel, spiral, shaft, 3rd motion	1	...	...	...	...	...	...	...	...	...	1
Springs, steel, clutch	...	...	...	1	...	...	1	...	...	...	1
Wheels, iron, guide, chain, endless	...	...	...	1	...	...	1	...	...	...	...
Wheels, iron, hand	2	...	...	2	...	...	2	...	...	...	...
Wheels, iron, sprocket, large	...	...	...	1	...	...	1	...	...	...	...
Wheels, iron, sprocket, small	...	...	...	1	...	...	1	...	...	...	...
Wheels, iron, spur, 50 teeth	1	...	...	...	...	...	...	...	...	...	...
Wheels, iron, spur, 30 teeth	1	...	...	...	...	...	...	...	...	...	...
Wheels, iron, spur, shaft, 3rd motion, 40 teeth	...	...	...	1	...	...	1	...	...	...	...
Wheels, iron, spur, shaft, 4th motion, 32 teeth	...	...	...	1	...	...	1	...	...	...	...
Wheels, metal, hand, elevating	...	...	...	...	...	...	...	...	...	2	...
Wheels, metal, hand, brake	2	...	...	...	...	...	...	...	...	...	...
Wheels, metal, bevel, 16 teeth, shaft, 1st and 2nd motion ... pairs	...	...	...	...	...	...	...	...	...	2	...
Wheels, metal, worm, shaft, 3rd motion	...	...	...	...	...	...	...	...	...	1	...
Worms, metal	...	...	...	...	...	...	...	...	...	1	...

* *See* note * page 435.

† Demands should state if for mountings fitted for 10° depression.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.	10-inch barbette. Mark I. "C" pivot.	10-inch barbette. Mark I. "D" pivot.	10-inch barbette. Mark II.	10-inch barbette. Mark III.	9·2-inch barbette Mark I. and IA.*	9·2-inch barbette Mark II.	8-inch. Barbette.	6-inch. Vavasseur central pivot.	6-inch. Barbette.	Spare. Fort or Battery, per 10 guns or less No. of each nature.
GEAR, ELEVATION, INDICATOR.											
Bushes, metal, flanged	...	...	...	1	...	...	1	...	...	...	...
Brackets, metal, indicator	...	...	...	2	...	...	2	...	...	...	...
Levers, wrought iron, with pins and collars, central	...	...	...	1	...	...	1	...	...	...	...
Levers, wrought iron, with pins and collars, outer	...	...	...	2	...	...	2	...	...	...	...
Pinions, steel, 13 teeth	...	...	...	2	...	...	2	...	...	...	...
Pins, wrought iron, retaining	...	...	...	2	...	...	2	...	...	...	...
Plates, metal, indicator, inner	...	...	...	2	...	...	2	...	...	...	...
Plates, metal, indicator, outer	...	...	...	2	...	...	2	...	...	...	...
Plates, metal, yard, scale	...	...	...	2	...	...	2	...	...	...	...
Pointers, metal, indicator, with bolts	...	...	...	2	...	...	2	...	...	...	...
Rods, wrought iron, outer, with studs and spring, spiral	...	...	...	2	...	...	2	...	...	...	...
Rods, wrought iron, central	...	...	...	1	...	...	1	...	...	...	...
Shafts, wrought iron, indicator, with keys	...	...	...	1	...	...	1	...	...	...	...
Spindles, steel, for pinion, with collars and nuts	...	...	...	2	...	...	2	...	...	...	...
Studs, wrought iron, rod, central	...	...	...	1	...	...	1	...	...	...	...
GEAR, LIFTING, HYDRAULIC PIVOT.											
38407 Equip. 1692 **Bands,** eccentric, metal, in 2 pieces with connecting bolts and taper pin	...	...	...	...	1	...	...	...	...	...	...
Brackets, with bolts or screws, lever, raising valve, iron	...	...	...	1	1	...	1	...	...	...	...
Brackets, with bolts or screws, shaft, pointer	...	...	...	1	1	...	1	...	...	...	...
Cocks, draw off, tank, metal	...	...	...	1	1	...	1	...	...	...	...

Connections, delivery pipe, steel	...	...	...	...	1	1	...	1	...	...	...	...
Connector, tank, metal, with fixing screws	...	...	...	...	...	1	...	...	...	...	...	...
Covers, iron, with fixing screws pivot	...	...	...	...	1	...	...	1	...	...	...	...
pump	...	...	...	...	1	...	...	1	...	...	...	...
receiver, overflow (in 2 pieces)	...	...	...	...	...	1	...	...	...	...	...	...
tray, ,, ,, ,,	...	...	...	...	1	...	...	1	...	...	...	...
Couplings, eccentric, steel, with screws	...	...	...	...	...	1	...	...	...	...	...	...
Cylinders, steel	...	...	...	...	1	1	...	1	...	...	...	...
Eccentrics, steel	...	...	...	...	...	1	...	...	...	...	...	...
Guides, hand lever disconnecting pump, iron, with collars and studs	...	...	...	...	...	1	...	...	...	...	...	...
releasing, iron, with pin and chain	...	...	...	...	1	1	...	1	...	...	...	...
Handles, draw off cock, iron	...	...	...	...	...	1	...	...	...	...	...	...
Keys, ram, hydraulic, steel, with screws	...	...	...	...	...	1	...	...	...	...	...	...
Leathers, packing, joint plate of tank	...	...	...	...	2	...	...	2	...	...	...	...
Levers connecting, crank, shaft with rod	...	...	...	...	...	1	...	...	...	...	...	...
hand disconnecting pump, with pin and chain	...	...	...	...	...	1	...	...	...	...	...	...
pump, with key and chain	...	...	...	...	1	1	...	1	...	...	...	...
releasing	...	...	...	...	1	1	...	1	...	...	...	...
releasing eccentric rod, iron	...	...	...	...	...	1	...	...	...	...	...	...
valve, iron with taper pin	...	...	...	...	1	1	...	1	...	...	...	...
Links, connecting, iron with nuts, and pins, with collars and keys raising lever	...	...	...	...	1	...	...	1	...	...	...	...
,, valve	...	...	...	...	1	...	...	1	...	...	...	...
,, lever and valve	...	...	...	...	...	2	...	...	...	...	...	...
Packing, asbestos	lb.	...	...	...	6	6	...	6	...	...	...	3†
Pipes, copper, with fittings delivery	...	...	...	...	1	1	...	1	...	...	...	...
suction	...	...	...	...	1	1	...	1	...	...	...	...
Plates indicator, metal with screws	...	...	...	...	1	1	...	1	...	...	...	...
joint, tank ,, ,, ,,	...	...	...	...	2	...	...	2	...	...	...	...
stop, pump lever, iron with screws	...	...	...	...	1	1	...	1	...	...	...	...
bearing pivot plate, steel	...	...	...	...	...	1	...	...	...	...	...	...
ram, steel	...	...	...	...	...	1	...	...	...	...	...	...
Pointers, iron	...	...	...	...	1	1	...	1	...	...	...	...
Pumps complete	...	...	...	...	1	1	...	1	...	...	...	1
parts of glands spindle, valve, release, metal	...	...	...	...	1	1	...	1	...	...	...	...
,, ,, suction ,,	...	...	...	...	1	1	...	1	...	...	...	...
plugs delivery, metal	...	...	...	...	1	...	...	1	...	...	...	...
release ,,	...	...	...	...	1	...	...	1	...	...	...	...
delivery and release, metal	...	...	...	...	...	2	...	...	...	...	...	...
stopping hole, metal	...	...	...	...	1	1	...	1	...	...	...	...
suction, metal	...	...	...	...	1	1	...	1	...	...	...	...

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* *See* note *, page 435.

† Per slide.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

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Equip.
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Components.	12-inch Garrison.	10-inch barbette. Mark I. "C" pivot.	10-inch barbette. Mark I. "D" pivot.	10-inch barbette. Mark II.	10-inch barbette. Mark III.	9·2-inch barbette Mark I. and IA.*	9·2-inch barbette Mark II.	8-inch. Barbette.	6-inch. Vavasseur central pivot.	6-inch. Barbette.	Spare. Fort or Battery, per 10 guns or less No. of each nature.
Pumps, parts of — plungers, B.P.	...	...	...	1	1	...	1	...	...	..	...
Pumps, parts of — pumps, body, without fittings	...	...	...	1	1	...	1	...	...	...	...
Pumps, parts of — rings, packing, leather, L section	...	...	...	2	2	...	2	...	...	...	4†
Pumps, parts of — seatings, valve	...	...	...	2	3	...	2	...	...	...	...
Pumps, parts of — spindles, valve, release, B.P.	...	...	...	1	1	...	1	...	...	...	...
Pumps, parts of — spindles, ,, suction	...	...	...	1	1	...	1	...	...	...	...
Pumps, parts of — springs, valve, delivery, B.P.	...	...	...	1	1	...	1	...	...	...	1†
Pumps, parts of — springs, valve, release	...	...	...	1	1	...	1	...	...	...	1†
Pumps, parts of — springs, valve, suction, metal	...	...	...	1	1	...	1	...	...	...	1†
Pumps, parts of — strips, leather, packing, plunger	...	...	...	1	1	...	1	...	...	...	2†
Pumps, parts of — valves, steel	...	...	...	...	3	...	...	...	...	...	2†
Pumps, parts of — valves, delivery and suction, steel	...	...	...	2	...	...	2	...	...	...	1†
Pumps, parts of — valves, release, B.P.	...	...	...	1	...	...	1	...	...	...	1†
Pumps, parts of — washers, packing, leather (3 to a set) ... sets	...	...	...	1	1	...	1	...	...	...	...
Rams, metal	...	...	...	1	1	...	1	...	...	...	...
Receivers, overflow, metal	...	...	...	...	1	...	...	...	...	...	...
Rims, cylinder, metal	...	...	...	...	1	...	...	...	...	...	...
Rings, canvas, cover, metal	...	...	...	...	1	...	...	...	...	...	...
Shafts — crank, steel, with collar	...	...	...	...	1	...	...	...	...	...	...
Shafts — crank, steel, with keys	...	...	...	1	...	...	1	...	...	...	...
Shafts — disconnecting, steel	...	...	...	...	1	...	...	...	...	...	...
Shafts — pointer, with taper pin	...	...	...	1	1	...	1	...	...	...	...
Studs — link, raising lever, iron	...	...	...	1	1	...	1	...	...	...	...
Studs — releasing lever, iron, with collar	...	...	...	1	1	...	1	...	...	...	...

Tanks, liquid, iron, with cover	...	...	...	...	1	1	...	1	...	...	...	...
Trays, liquid, iron (in 2 pieces)	...	...	...	...	1	...	...	1	...	...	...	...
Unions, suction pipe to tank, metal	...	...	...	...	...	1	...	...	...	...	...	...
Washers, packing, leather‡ (set of 9)	sets	...	...	...	1	...	...	1	...	...	...	2†
Washers, packing, leather‡ (set of 10)	,,	...	...	...	...	1	...	...	...	...	...	2†
GEAR, LOADING.												
Axles, wheel, spur, steel, with collar and split key	...	...	1	1	...	...	1	...	...	...	...	...
Balls, anti-friction, ⅜ inch diam.	...	17	...	...	...	...	...	...	...	...	...	6
Bands, steel, friction, brake drum	...	...	...	...	1	1	...	1	...	...	...	1
Blocks, sheave, derrick	...	...	1	1	1	1	1	1	...	...	...	...
Derricks, iron, with sheaves and pins	...	1	...	...	1	...	...	1	...	...	...	...
Derricks, loading	...	...	1	1	...	...	1	...	...	...	...	...
Derricks, with sheaves and pins, cartridge, iron	...	...	...	...	...	1	...	...	...	...	...	...
Derricks, with sheaves and pins, projectile, steel	...	...	...	...	...	1	...	...	...	...	...	...
Derricks, ropes, steel wire	...	...	1	1	1	1	1	1	...	...	...	1†
Drums, brake	...	...	...	...	1	1	...	1	...	...	...	...
Guards, wheel, spur and pinions, iron, with screws	...	...	1	1	...	...	...	...	...	...	...	...
Guards, wheel, spur and pinions, with screws	...	...	...	...	...	...	1	...	...	...	...	...
Handles, winch, iron, No. 28	...	...	1	1	...	...	1	...	...	...	...	...
Handles, winch, iron, No. 4	...	...	...	...	1	...	...	1	...	...	...	...
Handles, winch, iron, No. 7	...	...	...	...	...	1	...	...	...	...	...	...
Levers, iron, brake, with stud, collar and key	...	...	...	...	1	1	...	1	...	...	...	...
Levers, traversing, derrick, iron	...	...	1	1	...	...	1	...	...	...	...	...
Nuts, metal, joint rod, releasing	...	...	...	...	1	1	...	1	...	...	...	...
Pawls, steel, with bolts	...	...	1	1	...	...	1	...	...	...	...	...
Pawls, steel, brake drum	...	...	...	...	2	2	...	2	...	...	...	...
Pinions, steel, 1st motion, with split keys	...	...	1	1	...	...	1	...	...	...	...	...
Pinions, steel, 9 teeth, with collar and screw	...	1	...	...	...	...	...	...	...	...	...	...
Pins, sheave, steel, with collar and split keys	...	...	2	2	...	...	2	...	...	...	...	...
Pins, steel, joint, rod, releasing, with collar and key	...	...	...	...	1	1	...	1	...	...	...	...
Protectors, ball bearings, metal	...	...	1	1	...	...	1	...	...	...	...	...
Rings, ball bearing, metal with steel balls	...	...	1	1	...	...	1	...	...	...	...	...

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* *See* note *, page 435.

† Per slide.

‡ Consisting of:—

Washers, packing, leather
- pump, set of 3 (*see* Pump).
- pipe fittings
  - 10-inch and 9·2-inch, Mark II, set of 5.
  - 10-inch, Mark III, set of 6.
- draw-off cock, 1.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

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Components.	12-inch Garrison.	10-inch barbette.				9·2 inch barbette		8-inch.	6-inch.		Spare.
		Mark I.		Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
		"C" pivot.	"D" pivot.								
Rods, steel, releasing, with taper pin	...	...	...	1	1	...	1	...	...	...	...
Shaft, iron, with collars and screws	1	...	...	...	...	...	...	...	...	...	...
Sheaves, derrick, metal, large	...	1	1	...	...	1	...	...	...	...	...
Sheaves, derrick, metal, small	...	1	1	...	...	1	...	...	...	...	...
Spindles, steel, brake drum, with collars, nut and pin	...	...	..	1	1	...	1	...	...	...	...
Spindles, steel, lever, brake	...	...	...	1	...	...	1	...	...	...	...
Spindles, steel, lever brake, with collars, nut and pin	...	...	...	...	1	...	...	...	...	...	...
Springs, steel pawl, brake drum	...	...	...	2	2	...	2	...	...	...	2
Washers, ball bearing, steel	...	1	1	...	...	1	...	...	...	...	...
Wheels, metal, ratchet	...	...	...	1	1	...	1	...	...	...	...
Wheels, spur, iron, 55 teeth	1	...	...	...	...	...	...	...	...	...	...
Wheels, spur, steel, 45 teeth, with bollard	...	1	1	...	...	1	...	...	...	...	...
Wheels, metal, hand, rod, relaxing	...	...	...	1	1	...	1	...	...	...	...
Windlass, iron	1	...	...	1	1	...	1	...	...	...	...
GEAR, TRAVERSING.											
Arcs, metal, graduated, with bolts and nuts	...	...	...	...	...	...	...	...	...	1	...
Boxes, metal, lubricating, with copper pipe	4	...	...	...	...	...	...	...	...	...	...

Brackets	metal, shaft	1st motion	upper	...	...	...	...	...	...	...	...	...	1	...
			lower	...	...	...	...	...	...	...	...	...	1	...
		2nd motion, rear		...	...	...	...	...	...	...	...	...	1	...
	steel, shaft	2nd motion, front		...	...	...	...	...	...	...	...	...	1	...
		3rd motion		...	...	...	...	...	...	...	...	...	1	...
	brake			...	...	...	...	...	...	...	...	2	...	...
Covers	steel, wheel, spur			...	...	...	...	...	...	...	...	2	...	...
	metal, worm			...	...	...	...	...	...	...	...	1	...	...
Chains, endless	metal			2	...	...	...	...	...	...	...	...	...	2
	steel			...	...	...	1	...	...	1	...	...	...	...
Guards, metal	pinion	1st motion, with screws		...	...	2	...	...	2	...	...	...	...	...
		winch-handle and sprocket wheel (in two pieces)	left	1	...	...	...	...	...	...	...	...	...	...
			right	1	...	...	...	...	...	...	...	...	...	...
	wheel, spur and pinion			1	...	...	...	...	...	...	...	...	...	...
Handles	screw brake, steel			...	...	...	...	...	...	...	...	2	...	...
	winch	No. 2		2	...	...	...	...	...	...	...	...	...	2
		,, 4		...	...	...	2	...	...	2	...	...	...	1
		,, 7		...	...	...	...	2	...	...	...	...	...	2
		,, 29		...	...	2	...	...	2	...	...	...	...	1
		,, 32		...	...	...	...	...	...	...	2	...	...	1
Keys, wheel, worm, training				...	...	...	...	...	...	...	...	1	...	...
Pawls, metal	right			...	...	...	...	...	...	...	...	1	...	...
	left			...	...	...	...	...	...	...	...	1	...	...
Plugs, jamming, brake, metal				...	...	...	...	...	...	...	...	4	...	...
Pins	stop, for pawl, with chain			...	...	...	...	...	...	...	...	2	...	...
	taper	split, spindle, traversing	·45″ × 3·5″	...	...	...	...	...	...	...	...	...	...	4†
			·375″ × 3·0″	...	...	...	...	...	...	...	...	...	.	4†
		steel, shafts, traversing	large end ·41″ small end ·32″ 3·25″ long	...	...	...	...	...	...	...	...	...	...	6‡
Pinions	iron	shafts, bevel	1st motion, 18 teeth	...	...	...	1	...	...	1	...	...	...	...
			2nd motion, 20 teeth	...	...	...	1	...	...	1	...	...	...	...
			3rd motion, 14 teeth	...	...	...	2	...	...	2	...	...	...	...
		spur	spindle, wheel, sprocket	2	...	...	...	...	...	...	...	...	...	...
			with spindle, winch handle	2	...	...	...	...	...	...	...	...	...	...
	metal	bevel shaft	traversing 17 teeth	...	...	...	...	...	...	...	1	...	...	...
			traversing 14 teeth	1	...	...	...	...	...	...	...	...	...	...
			2nd motion, 15 teeth	1	...	...	...	...	...	...	...	...	1	...
		spur shaft	3rd motion, 12 teeth	1	...	...	...	...	...	...	...	...	...	...
			4th motion, 10 teeth	1	...	...	...	...	...	...	...	...	...	...

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* *See* note * page 435.

† For 6″ Vavasseur.

‡ For 6″ Barbette.

Slides L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.	10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
		Mark I. "C" pivot.	Mark I. "D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
Pinions, steel..., bevel, 2nd motion, 21 teeth	...	...	2	...	...	2	...	...	...	...	...
3rd motion, 26 teeth	...	...	2	...	...	2	...	...	...	...	...
shaft, 2nd motion, 12 teeth	...	1	...	...	...	...	...	...	...	1	...
shaft, 2nd motion, 18 teeth	...	...	...	...	1	...	...	...	...	...	...
shaft, 3rd motion, 20 teeth	...	...	...	...	1	...	...	...	...	...	...
spur, shaft, 1st motion, 11 teeth	...	...	...	...	1	...	...	...	...	...	...
4th motion, 10 teeth	...	...	2	...	...	2	...	...	...	...	...
shaft, 3rd motion, 11 teeth	...	...	...	...	...	...	...	...	...	1	...
with spindle, 1st motion, with collars and split keys	...	1	2	...	...	2	...	...	...	...	...
racer, steel, spur, 11 teeth, with set screw	...	1	...	...	...	...	...	...	...	...	...
Plates, steel, worm	...	...	...	...	...	...	...	...	1	...	...
Pointers, indicator, steel, with bracket bolt and keep pin	...	...	...	...	...	...	...	...	...	1	...
Rack, steel, in 6 segments, with fixing studs	...	1	...	...	...	...	...	...	...	...	...
Screws, adjusting, chain, iron, with nut	2	...	...	...	...	...	...	...	...	...	...
lubricating, metal	...	...	...	...	...	...	...	...	...	2	...
brake, steel, with split pin	...	...	...	...	...	...	...	...	2	...	...
Shafts, iron..., 1st motion	...	...	...	1	...	...	1	...	...	...	...
2nd motion, with collars and screws	1	...	...	1	...	...	1	...	...	...	...
3rd motion, with collars and screws	...	...	...	2	...	...	2	...	...	...	...
4th motion, with collars andscrews	1	...	...	...	...	...	...	...	...	...	...
traversing	1	...	...	...	...	...	...	...	...	...	...
steel, 1st motion, with collars, pin and key	...	...	...	...	...	...	...	...	...	1†	...
1st motion, with collars and keys	...	...	...	...	1	...	...	...	...	...	...

Shafts, steel, 2nd motion ...	...	...	...	...	1	...	...	...	...	...	...
Shafts, steel, 2nd motion, with keys	...	...	2	...	...	2	...	...	...	...	...
Shafts, steel, 2nd motion, with key	...	...	...	...	...	...	...	...	...	1	...
Shafts, steel, 2nd motion, with key and check screw	...	1	...	...	...	...	...	...	...	...	...
Shafts, steel, 3rd motion ...	...	...	...	...	1	...	...	...	...	...	...
Shafts, steel, 3rd motion, with keys	...	...	2	...	...	2	...	...	...	...	...
Shafts, steel, 3rd motion, with key	...	...	...	...	...	...	...	...	...	1	...
Shafts, steel, 3rd motion, with check screw	...	1	...	...	...	...	...	...	...	...	...
Shafts, steel, 3rd motion, with collars and screws	1	...	...	...	...	...	...	...	...	...	...
Shafts, steel, 4th motion	...	...	...	2	2	...	2	...	...	...	...
Shafts, traversing, with collars and keys	...	...	...	...	...	...	...	1	...	...	...
Shafts, worm ...	...	...	...	...	...	...	...	1	...	...	...
Shafts, worm, steel, with nut and pin	...	...	...	...	...	...	...	...	1	...	...
Spindles, gudgeon, wheel, guide, chain, endless, with collars, nuts and keys	...	...	...	1	...	...	1	...	...	...	...
Spindles, steel, wheel, spur, with collars, nuts and pins, 1st motion	...	...	...	...	...	...	...	...	2	...	...
Studs, steel, cover, wheel, spur	...	...	...	...	...	...	...	...	4	...	...
Studs, steel, pawl, with pin and washer	...	...	...	...	...	...	...	...	2	...	...
Stops, steel pawl, with bolts, left	...	...	...	...	...	...	...	...	1	...	...
Stops, steel pawl, with bolts, right	...	...	...	...	...	...	...	...	1	...	...
Wheels, iron, bevel shaft, 3rd motion, 35 teeth	1	...	...	...	...	...	...	...	...	...	...
Wheels, iron, bevel shaft, 4th motion, 40 teeth	...	...	...	2	...	...	2	...	...	...	...
Wheels, iron, guide, chain, endless	...	...	...	1	...	...	1	...	...	...	...
Wheels, iron, hand, with handle	...	1	...	...	...	...	...	...	...	...	...
Wheels, iron, sprocket, front, with spindle	2	...	...	...	...	...	...	...	...	...	...
Wheels, iron, sprocket, large	...	...	...	2	...	...	2	...	...	...	...
Wheels, iron, sprocket, rear	2	...	...	...	...	...	...	...	...	...	...
Wheels, iron, sprocket, small	...	...	...	1	...	...	1	...	...	...	...
Wheels, iron, spur, shaft, 4th motion, 55 teeth	1	...	...	...	...	...	...	...	...	...	...
Wheels, iron, spur, shaft, traversing, 25 teeth	1	...	...	...	...	...	...	...	...	...	...
Wheels, steel, spur, 1st motion	...	...	...	...	...	...	...	...	2	...	...
Wheels, steel, spur, 2nd motion	...	...	...	...	...	...	...	...	2	...	...
Wheels, steel, spur, 63 teeth	...	1	2	...	...	2	...	...	...	...	...
Wheels, steel, spur, shaft, 2nd motion, 22 teeth	...	...	...	...	1	...	...	...	...	...	...
Wheels, steel, bevel, 3rd motion, shaft, 30 teeth	...	1	...	...	...	...	...	...	...	1	...
Wheels, steel, bevel, shaft, 3rd motion, 40 teeth	...	...	...	...	1	...	...	...	...	...	...
Wheels, steel, bevel, shaft, 4th motion, 36 teeth	...	...	...	...	2	...	...	...	...	...	...
Wheels, worm	...	...	...	...	...	...	...	1	1	...	...
Wheels, metal, bevel, 2nd motion, 25 teeth	...	...	...	...	...	...	...	...	...	1	...
Wheels, metal, hand	...	...	...	...	...	...	...	...	2	2	...
Worms, steel	...	...	...	...	...	...	...	...	1	...	...

* *See* note * page 435.

† Demands should state if for mountings fitted for 10° depression.

Slides I., B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.		10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
		Mark I.									
	12-inch Garrison.	"C" pivot.	"D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
GEAR, RUNNING BACK.											
Axles, wheel, serpentine, with pin, collar, and screws	...	...	...	...	...	...	...	2	...	...	...
Blocks, metal sheave	...	...	...	...	...	...	...	4	...	...	...
Guards, wheel, spur and pinion, with bolts and screws, left	...	...	...	...	...	...	...	1	...	...	...
Guards, wheel, spur and pinion, with bolts and screws, right	...	...	...	...	...	...	...	1	...	...	...
Pinions, spur, spindle, winch handle, 12 teeth	...	...	...	...	...	...	...	2	...	...	...
Shackles, iron, block, sheave, with thimble	...	...	...	...	...	...	...	2	...	...	...
Spindles, winch handle	...	...	...	...	...	...	...	2	...	...	...
Wheels, serpentine	...	...	...	...	...	...	...	2	...	...	...
LIVE ROLLER SEGMENT.											
Axles, steel, roller	...	...	...	...	...	...	...	14§	...	...	...
	...	...	...	...	...	...	...	17‡	...	...	...
Rollers, slide, No. 38	...	...	...	...	...	...	...	14§	...	...	...
	...	...	...	...	...	...	...	17‡	...	...	...
Segments, steel, live roller, with radial arms and pivot plate, 178 traverse	...	...	...	...	...	...	...	1	...	...	...
237 ,,	...	...	...	...	...	...	...	1	...	...	...
240 ,,	...	...	...	...	...	...	...	1	...	...	...

YOKE, STEEL.

Brackets, iron, with bolts { buffer	...	2	...	...	...	...	...	...	...	...	...	...
Brackets, iron, with bolts { connecting, yoke	...	2	...	...	...	...	...	...	...	...	...	...
Collars, metal	...	4	...	...	...	...	...	...	...	...	...	...
Pins, bracket, connecting, iron, with collars and pins	...	2	...	...	...	...	...	...	...	...	...	...
Plates, stop, piston-rod, iron	...	2	...	...	...	...	...	...	...	...	...	...
Rollers, steel	...	4	...	...	...	...	...	...	...	...	...	...
Springs, disc, spindle, buffer, No. 2 { with radius	...	2	...	...	...	...	...	...	...	...	...	1
Springs, disc, spindle, buffer, No. 2 { without radius	...	22	...	...	...	...	...	...	...	...	...	11
Spindles, buffer, iron, with nuts	...	2	...	...	...	...	...	...	...	...	...	1
Yokes, body, without fittings	...	1	...	...	...	...	...	...	...	...	...	...

PLATFORMS, LANDING, LOADING AND SIGHTING.

Bars, angle, sighting platform	steel	...	2	2	...	...	2	...	...	...	...	...
Blocks, wood, distance platform landing { long	...	...	1‖	1‖	...	...	1‖	...	...	...	...	...
Blocks, wood, distance platform landing { short	...	...	1‖	1‖	...	...	1‡	...	...	...	...	...
Boards { platform with bolts { landing (set of 5)	sets	...	1‖	1‖	...	...	...	...	...	...	...	...
Boards { platform with bolts { ,, (,, 4)	,,	...	...	...	...	...	1‖	...	...	...	...	...
Boards { platform with bolts { loading (,, 5)	,,	...	1‖	1‖	...	...	1‖	...	...	...	...	...
Boards { step, intermediate, with bolts	...	...	1†	1¶	...	...	1	...	...	...	...	...
Brackets, steel, angle	...	...	...	...	...	...	...	...	...	...	2	...
Handles, traversing, iron, rear of platform	...	...	...	...	...	...	...	...	...	...	1	...
Ladders { iron, rear, with wood step and bolts	...	...	1	1	...	...	1	...	...	...	...	...
Ladders { steel, with bolts	...	...	...	...	...	...	...	...	...	...	1	...
Plate, iron, angle, connecting boards of landing platform	...	...	1	1	...	...	1	...	...	...	...	...
Platforms, { sighting; steel chequered	...	...	2	2	...	...	2	...	...	...	...	...
Platforms, { body, steel, with iron chequered plate (without fittings)	...	...	...	...	...	...	...	...	...	...	1	...
Pillars, iron { single, with nut	...	...	...	...	...	...	...	...	...	...	1	...
Pillars, iron { double	...	...	...	...	...	...	...	...	...	...	1	...
Posts, sighting platform { left, with steps, bolts, and screws	...	...	1	1	...	...	1	...	...	...	...	...
Posts, sighting platform { right, ,, ,, ,, ,,	...	...	1	1	...	...	1	...	...	...	...	...
Rails, hand { iron, with bolts and nuts	...	...	...	...	...	...	...	...	...	...	1	...
Rails, hand { landing platform, iron, with bolts	...	...	1	¶1	...	...	2	...	...	...	...	...
Rails, hand { sighting platform, iron, with stanchions and bolts	...	...	1	1	...	...	1	...	...	...	...	...

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* *See* note *, page 435.
§ For segments, 178° traverse,
† For Registered Nos. 3545 and 3546 only.
‖ Demands should state the Registered No. of mountings.
‡ For segments, 237° and 240° traverse
¶ For Registered No. 3361 only.

Slides, L, B.L.—Component and Spare Parts for (12-inch to 6-inch)—*continued.*

Components.	12-inch Garrison.	10-inch barbette.				9·2-inch barbette		8-inch.	6-inch.		Spare.
		Mark I.									
		"C" pivot	"D" pivot.	Mark II.	Mark III.	Mark I. and IA.*	Mark II.	Barbette.	Vavasseur central pivot.	Barbette.	Fort or Battery per 10 guns or less No. of each nature.
Stays, iron, ladder, with bolt	...	...	...	...	...	...	...	...	...	1	...
Stays, iron, ladder, rear with bolts, centre	...	1	1	...	...	1	...	...	...	...	...
Stays, iron, ladder, rear with bolts, left	...	1	1	...	...	1	...	...	...	...	...
Stays, iron, ladder, rear with bolts, right	...	1	1	...	...	1	...	...	...	...	...
Stays, handrail sighting platform; steel, with bolts	...	2	2	...	...	2	...	...	...	...	...
Steps, iron, sighting, 10° depression	...	...	...	...	...	...	...	...	...	1	...
Step, sighting platform ... wood	...	2	2	...	...	2	...	...	...	...	...
SHIELD.											
Arcs, securing hinged shield, with screws	...	...	...	...	...	...	...	...	1	...	...
Brackets, securing shield to slide, with bolts and screws	...	...	...	...	...	...	...	...	2	...	...
Covers, steel, hole in shield	...	...	...	...	...	...	...	...	1	...	...
Handles, for hinged shield, with screws	...	...	...	...	...	...	...	...	1	...	...
Hinges, for roof	...	...	...	...	...	...	...	...	4	...	...
Keys, wrought iron, split, round, loop head, ·187″ × 1·75″	...	...	...	...	...	...	...	...	2	...	...
Keys, wrought iron, split, round, loop head, ·25″ × 1·75″	...	...	...	...	...	...	...	...	2	...	...
Loops, steel, lifting, hinged, roof, with nut and split key	...	...	...	...	...	...	...	...	2	...	...
Loops, steel, lifting, shield, with nut and split key	...	...	...	...	...	...	...	...	2	...	...
Pins, steel, hinge, roof	...	...	...	...	...	...	...	...	2	...	...
Pins, steel, arc, with chain	...	...	...	...	...	...	...	...	1	...	...
Roofs, hinged	...	...	...	...	...	...	...	...	1	...	...
Shields, steel, with angles and screws, circular, with fixed roof	...	...	...	...	...	...	...	...	1	...	...
Shields, steel, flat, 3 in. thick	...	...	...	...	...	...	...	...	1	...	...

* *See* note *, page 435.

CARRIAGES, GARRISON, R.M.L.—

Components.	Carriages.												
	Double plate,												
	Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II*., and III.	Small port.			Casemate, 10 in., Mark II., low.	Casemate or dwarf.							
		12·5-in., 38 tons.		10-in.		12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12 in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
		7 ft. recoil, Mark II.	6 ft. recoil.										
Axles, steel roller, with nuts, long	...	...	...	...	...	...	...	...	...	...	...	...	1
short	...	...	...	...	...	...	...	...	...	...	...	...	2
with nut and split key... ...	...	...	...	...	...	...	...	...	...	...	...	...	3
with split keys	...	...	...	...	...	...	...	...	...	...	...	...	4
Bands, iron, securing, hydraulic buffer	1	2	...	...	...	1	...	...	...	...	...	...	5
Balls, anti-friction 1¼-in. diam.	...	...	...	...	...	...	...	...	...	...	...	...	6
Bearings, with bolts or screws, iron, axles, roller...	...	...	...	...	...	...	...	...	...	...	...	...	7
iron, screw, following up, inside	...	2	2	...	...	...	...	...	...	...	...	...	8
outside	...	2	2	...	...	...	...	...	...	...	...	...	9
metal, axles, front roller, ...	4	4	4	4	4	4	4	4	...	4	4	4	10
inner, with feather ...	...	...	...	...	...	...	...	...	2	...	...	...	11
outer	...	...	...	...	...	...	...	...	2	...	...	...	12
roller	...	...	...	...	...	...	...	...	...	...	...	...	13
elevating gear, pinion spindle, ...	1†	...	...	...	...	1‡	...	...	...	...	...	...	14
1st motion	...	...	...	...	...	...	...	...	...	...	...	...	15
2nd ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	16
3rd ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	17
left or right	...	...	...	...	...	...	...	...	...	...	...	...	18
elevating gear, spindle wheel hand ...	1‡	...	...	...	...	1‡	...	...	...	...	...	...	19
nipping gear...	1	2	2	...	...	1	1	...	...	...	...	...	20
screw, compressor	1	1	1	...	...	1	...	...	...	...	...	...	21
shafts, eccentric, rear, ...	...	4	4	4	...	4	4	...	...	...	...	...	22
left, inside ...	...	...	...	...	...	...	...	...	1	...	...	...	23
outside ...	...	...	...	...	...	...	...	...	1	...	...	...	24
right, inside ...	...	...	...	...	...	...	...	...	1	...	...	...	25
outside ...	...	...	...	...	...	...	...	...	1	...	...	...	26
longitudinal	...	2	2	...	...	...	...	...	...	...	...	...	27
winch handle	...	2	2	...	...	...	...	...	...	...	...	...	28
spindle, hydraulic lift	...	2	2	...	...	...	...	...	...	...	...	...	29
trunnion, left...	...	...	...	...	...	...	...	...	...	...	...	...	30
right	...	...	...	...	...	...	...	...	...	...	...	...	31
manganese bronze, ball trunnion, left ...	...	...	...	...	...	...	...	...	...	...	...	...	32
right ...	...	...	...	...	...	...	...	...	...	...	...	...	33
Blocks, iron, trunnion, with loops	...	2	2	...	...	...	...	...	...	...	...	...	34
wood, buffer, with bolts	1	...	...	1	1	1	1	1	...	1	1	1	35
Bolts, iron, cap-square	...	...	...	...	...	...	...	...	...	...	...	...	36
Brackets, with bolts or screws, cast-iron, shaft, winch handle, lifting gear	...	...	...	2	...	...	...	...	...	...	...	...	37
spindle, buffer, front	...	...	...	...	...	...	...	...	2	...	...	...	38
rear	...	...	...	...	...	...	...	...	2	...	...	...	39
1st and 2nd motion, traversing gear, left ...	...	...	...	...	...	...	...	...	...	...	...	...	40
right ...	...	...	...	...	...	...	...	...	...	...	...	...	41
metal, arc elevating	...	...	...	...	...	...	...	...	...	...	...	...	42
bearing shaft, eccentric, double	...	...	...	...	...	...	...	...	...	...	...	1	43
doube, with socket for block	...	...	...	1	...	...	...	1	1	1	1	...	44
guide, rammer rope	2	...	...	...	...	2	...	...	...	...	...	...	45
hydraulic, jack	1	...	...	...	...	1	1	...	...	...	...	...	46
jamming	1	1	1	...	...	1	...	...	...	...	...	...	47

† For Marks II*. and III. only } demands for these parts must show the Marks
‡ ,, ,, III. only. } of carriage to prevent mistakes.

COMPONENT AND SPARE PARTS FOR.

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark 1.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	2
2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
3	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	10	...	...	...	...	...	...	...	2	...	...
5	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
6	...	...	...	58	...	...	...	...	...	...	...	...	...	...	6	...
7	...	...	...	...	...	20	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	4	...	4	...	4	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
16	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	2	...	2	...	...	2	...	...	...	...
18	...	...	...	...	...	2	...	2	...	2	2	...	2	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
24	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
25	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
26	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...
31	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
34	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	2	...	2	...	1	1	...	1	1	...	1	...	...	...
36	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
42	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...
45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Carriages, Garrison, R.M.L.—

Components.						Carriages.												
						Double plate.												
							Small port.				Casemate or dwarf.							
							12·5-in., 38 tons.											
						Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II.* and III.	7 ft. recoil, Mark II.	6 ft. recoil.	10-in.	Casemate, 10-in., Mark II., low.	12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
Brackets, with bolts or screws	metal	nut, screw, compressor				...	1	1	...	...	...	...	...	...	...	...	...	1
		pinion, spindle, elevating gear				...	1	1	...	...	...	...	...	...	...	...	...	2
		pointer				...	...	...	...	...	...	...	...	...	...	...	...	3
		screw	compressor			1	...	...	...	...	1	...	...	...	...	...	...	4
			scale	bottom		...	1	1	...	...	...	...	...	...	...	...	...	5
				top		...	1	1	...	...	...	...	...	...	...	...	...	6
		shaft	cross	wheel, bevel, with pinion	left	...	...	...	1	...	...	...	...	...	...	...	...	7
					right	...	...	...	1	...	...	...	...	...	...	...	...	8
				nipping gear	left	1	1	1	...	...	1	1	...	...	...	...	...	9
					right	1	1	1	...	...	1	1	...	...	...	...	...	10
			elevating		front	...	...	...	...	...	...	...	...	...	...	...	...	11
					rear	...	...	...	...	...	...	...	...	...	...	...	...	12
			longitudinal	centre	left	...	...	...	1	...	...	...	...	...	...	...	...	13
					right	...	...	...	1	...	...	...	...	...	...	...	...	14
				front	left	...	1	1	...	...	...	...	...	...	...	...	...	15
					right	...	1	1	...	...	...	...	...	...	...	...	...	16
				rear	left	...	...	...	1	...	...	...	...	...	...	...	...	17
					right	...	...	...	1	...	...	...	...	...	...	...	...	18
			wheel, spur, and pinion		left	...	...	...	1	...	...	...	...	...	...	...	...	19
					right	...	...	...	1	...	...	...	...	...	...	...	...	20
			wheel, hand			...	...	...	...	...	...	...	...	...	...	...	...	21
				elevating gear		...	...	...	...	...	...	...	...	...	...	...	...	22
			worm			...	...	...	...	...	...	...	...	...	...	...	...	23
		sheave block, nipping gear				...	1	1	...	...	...	...	...	...	...	...	...	24
		spindle	eccentric, nipping gear			1	...	...	...	...	1	1	...	...	...	...	...	25
			worm elevating gear		...	1†	...	...	...	...	1‡	...	...	...	...	...	...	26
				front	left	...	...	...	1	1	...	...	1	1	1	1	...	27
					right	...	...	...	1	1	...	...	1	1	1	1	...	28
				rear	left	...	...	...	...	1	...	...	1	...	...	...	...	29
					right	...	...	...	...	1	...	...	1	...	...	...	...	30
					...	1†	...	...	...	...	1‡	...	...	...	...	...	...	31
				with turn-buckle, pawl, pin, and split key	left	...	...	...	1	1	...	...	1	1	1	1	...	32
					right	...	...	...	1	1	...	...	1	1	1	1	...	33
			pinion, 2nd motion		left	...	...	...	...	...	...	...	...	...	...	...	...	34
					right	...	...	...	...	...	...	...	...	...	...	...	...	35
			pinion, 3rd motion			...	...	...	...	...	...	...	...	...	...	...	...	36
		traversing	1st motion		left	...	...	...	...	...	...	...	...	...	...	...	...	37
					right	...	...	...	...	...	...	...	...	...	...	...	...	38
			2nd motion			...	...	...	...	...	...	...	...	...	...	...	...	39
		wheel, worm				...	...	...	...	...	...	...	...	...	...	...	...	40
	iron	buffer				...	...	...	...	...	...	...	...	...	...	...	...	41
		cramp, elevating gear				1	...	...	...	...	1	1	...	...	...	...	...	42
		guard, girder ring			front	...	...	...	...	...	...	...	...	...	...	...	...	43
					rear	...	...	...	...	...	...	...	...	...	...	...	...	44
		guide for chain			left	1	1	1	...	...	1	1	...	...	...	...	...	45
					right	1	1	1	...	...	1	1	...	...	...	...	...	46

Where articles are interchangeable with others on the same line demands for these parts must show the Mark of carriage to prevent mistakes.

* 1 left and 1 right.
† For Marks II.* and III. only
‡ For Mark III. only

Component and Spare parts for —*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	2*	...	...	2*	...	...	...	...
3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
9	1	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
10	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
23	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
27	...	...	1	...	1	...	1	...	1	...	...	1	...	...	...	...
28	...	...	1	...	1	...	1	...	1	...	...	...	...	...	...	...
29	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	1	...	1	...	1	...	1	...	...	1	...	...	...	...
33	...	...	1	...	1	...	1	...	1	...	...	1	...	...	...	...
34	...	...	1	...	...	..	...	...	...	...	...	...	...	...	...	...
35	...	...	1	...	...	...	...	...	...	..	...	...	...	...	...	...
36	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
40	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
45	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

Carriages, Garrison, R.M.L.—

Components.	Carriages. Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II*. and III.	Small port. 12·5-in., 38 tons. 7 ft. recoil, Mark II.	Small port. 12·5-in., 38 tons. 6 ft. recoil.	Small port. 10-in.	Casemate, 10-in., Mark II., low.	Double plate, Casemate or dwarf. 12·5-in., 38 tons, Mark II. and III.	Double plate, Casemate or dwarf. 12-in., 35 tons.	Double plate, Casemate or dwarf. 11 or 12-in., 25 tons.	Double plate, Casemate or dwarf. 10-in., Mark I., E.O.C.	Double plate, Casemate or dwarf. 10-in.	Double plate, Casemate or dwarf. 9-in.	Double plate, Casemate or dwarf. 7-in.	
Brackets, with bolts or screws, iron, hydraulic buffer ...	...	...	...	...	1	...	1	1	1	1	1	1	1
Brackets, with bolts or screws, iron, hydraulic buffer, left	...	...	1	1	...	...	...	...	...	...	...	...	2
Brackets, with bolts or screws, iron, hydraulic buffer, right	...	...	1	1	...	...	...	...	...	...	...	...	3
Brackets, with bolts or screws, iron, pawl, retaining nipping lever	1	1	1	...	...	1	1	...	...	...	...	...	4
Brackets, with bolts or screws, iron, plates, compressor, left	1	...	...	...	...	1	...	...	...	...	...	...	5
Brackets, with bolts or screws, iron, plates, compressor, right	1	...	...	...	...	1	...	...	...	...	...	...	6
Brackets, with bolts or screws, iron, pointer ...	1†	...	...	...	...	1‡	...	...	...	...	...	...	7
Brackets, with bolts or screws, iron, rocking lever	1	2	2	...	...	1	...	...	...	...	...	...	8
Brackets, with bolts or screws, iron, stop lever, hydraulic lift, left	...	1	1	1	...	...	...	...	...	...	...	...	9
Brackets, with bolts or screws, iron, stop lever, hydraulic lift, right	...	...	...	1	...	...	...	...	...	...	...	...	10
Brackets, with bolts or screws, iron, stop lever, nipping	1	1	1	...	...	1	...	...	...	...	...	...	11
Brackets, with bolts or screws, steel, hydraulic buffer	...	...	...	...	...	...	...	...	...	...	...	...	12
Brackets, with bolts or screws, steel, shaft, worm, elevating gear	...	...	...	...	...	...	...	...	...	...	...	...	13
Buffers, hydraulic	1	...	...	...	...	...	...	...	...	...	...	...	14
Buffers, hydraulic	...	2*	...	...	...	...	...	...	...	...	...	...	15
Buffers, hydraulic	...	...	...	...	...	1	...	...	...	...	...	...	16
Buffers, hydraulic	...	...	...	...	...	...	...	...	...	...	...	...	17
Buffers, hydraulic	...	...	...	...	...	...	...	...	...	...	...	...	18
Capsquares, metal	...	...	...	...	...	...	...	...	...	...	...	...	19
Capsquares, iron	2	...	...	...	2	2	2	2	2	2	2	2	20
Capsquares, steel	...	...	...	...	...	...	...	...	...	...	...	...	21
Carriages, body, without fittings	1	1	1	1	1	1	1	1	1	1	1	1	22
Catches, iron, lever, nipping ...	1	...	...	...	...	1	...	...	...	...	...	...	23
Counterweights, iron, step, with bolt	1	...	...	...	...	1	1	...	...	...	...	...	24
Cradles, cast-steel, with metal liners and bolts	...	...	...	...	...	...	...	...	...	...	...	...	25
Glands, hydraulic buffer, metal, inside	...	...	...	...	...	...	...	...	...	...	...	...	26
Glands, hydraulic buffer, metal, outside	...	...	...	...	...	...	...	...	...	...	...	...	27
Guards, iron, girder, ring, left	...	...	...	...	...	...	...	...	...	...	...	...	28
Guards, iron, girder, ring, right	...	...	...	...	...	...	...	...	...	...	...	...	29
Guides, iron, rack elevating, with screws, front	...	1	1	...	...	...	...	...	...	...	...	...	30
Guides, iron, rack elevating, with screws, rear (in 2 pieces)	...	1	1	...	...	...	...	...	...	...	...	...	31
Guides, metal, arc elevating, left ...	...	...	...	...	1	...	...	1	1	1	...	...	32
Guides, metal, arc elevating, left, front...	...	...	...	...	...	...	...	...	...	...	...	...	33
Guides, metal, arc elevating, left, rear ...	...	...	...	...	...	...	...	...	...	...	...	...	34
Guides, metal, arc elevating, right ...	...	...	...	...	1	...	...	1	1	1	...	...	35
Guides, metal, arc elevating, right, front...	...	...	...	...	...	...	...	...	...	...	...	...	36
Guides, metal, arc elevating, right, rear ...	...	...	...	...	...	...	...	...	...	...	...	...	37
Guides, metal, arc elevating, upper and lower	...	...	...	...	...	...	...	...	...	...	...	...	38
Keys, capsquare with chains, No. 81	4	...	...	...	...	4	4	...	...	...	...	...	39
Keys, capsquare with chains, ,, 82	...	...	...	...	...	...	...	4	...	...	...	...	40
Keys, capsquare with chains, ,, 83	...	...	...	...	...	...	...	...	...	...	...	...	41
Keys, capsquare with chains, ,, 84	...	...	...	...	...	...	...	...	...	4	...	...	42
Keys, capsquare with chains, ,, 85	...	...	...	...	4	...	...	...	...	...	...	...	43
Keys, capsquare with chains, ,, 86	...	...	...	...	...	...	...	...	...	...	4	...	44
Keys, capsquare with chains, ,, 87	...	...	...	...	...	...	...	...	...	...	...	...	45
Keys, capsquare with chains, ,, 88	...	...	...	...	...	...	...	...	...	...	...	4	46
Keys, capsquare with chains, ,, 89	...	...	...	...	...	...	...	...	...	...	...	...	47
Keys, capsquare with chains, ,, 102	...	...	...	...	...	...	...	...	...	...	...	...	48
Keys, capsquare with chains, ,, 103	...	...	...	...	...	...	...	...	4	...	...	...	49
Keys, capsquare with chains, ,, 104	...	...	...	...	...	...	...	...	...	...	...	...	50

Where articles are interchangeable with others on the same line

* 1 left and 1 right.

† For Mark II*. and III. only } demands for these parts must show the mark of carriage,

‡ ,, ,, III. only ... ... } to prevent mistakes.

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	1	1	...	1	1	...	1	...	...	...
2	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
3	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
17	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
19	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	2	...	2	2	2	2	...	2	2	...	2	...	...	...
21	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
22	1	1	1	1	1	1	1	1	...	1	1	...	1	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
26	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
27	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
28	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
33	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
34	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
36	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
37	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
38	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
41	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...
42	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
44	...	...	...	...	4	...	...	...	...	...	...	...	...	...	2	...
45	...	...	...	...	...	...	...	*2*	...	...	*2*	...	...	...	2	...
46	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	...
47	...	...	...	...	...	...	...	...	...	*2*	...	...	*2*	...	2	...
48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2§
49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
50	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1

for which a supply of spare is laid down, they are shown in *italics.*

§ Per carriage.

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
						Double plate,							
		Small port.				Casemate or dwarf							
		12·5 in., 38 tons.											
	Casemate, 12·5 in., 38 tons, 7-ft. recoil, Mark II., II*. and III.	7-ft. recoil, Mark II.	6-ft. recoil.	10-in.	Casemate, 10-in., Mark II., low.	12·5-in., 38 tons, Mark II. and III.	12-in., 25 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
Loops, iron, bracket, with collar, nut, and split key ...	...	...	...	...	...	...	...	...	...	...	...	...	1
with nuts, front	2	2	2	2	2	2	2	2	2	2	2	2	2
rear	2	2	2	2	2	2	2	2	2	2	2	2	3
Loops, iron, common, with nuts, side	...	...	...	...	...	...	...	...	...	...	...	...	4
rope, guide, rammer, with nuts	...	...	...	...	...	...	...	...	2	...	...	...	5
transom, rear, with nut	...	...	...	...	...	...	...	...	2	...	...	...	6
Nuts, metal, screw, elevating	...	...	...	...	...	...	...	...	...	...	...	...	7
Pans, drip, hydraulic buffer, No. 13	...	...	...	...	...	1	...	...	...	...	...	...	8
,, 14	...	...	...	...	...	1	...	...	...	...	...	...	9
Pins, iron, step, with split key	1	...	...	...	...	1	1	...	...	...	...	...	10
steel, tie plate, with keys	...	6	6	...	...	...	...	...	...	...	...	...	11
Plates, cast-iron, packing bracket, shaft, worm...	...	...	...	...	...	...	...	...	...	...	...	...	12
clip, iron, with bolts, front ... ... pairs	1	1	1	1	1	1	1	1	...	1	1	1	13
left ... ... ,,	...	...	...	...	...	...	...	...	...	...	...	...	14
right ... ... ,,	...	...	...	...	...	...	...	...	...	...	...	...	15
— ... ... ,,	...	...	...	...	...	...	...	...	1	...	...	...	16
iron, cover, hand holes, with screws, oval...	...	...	...	...	...	...	...	...	...	...	...	...	17
round	...	...	...	...	...	...	...	...	...	...	...	...	18
iron, stop, rear roller, with bolts, left ...	...	...	...	...	...	...	...	...	1	...	...	...	19
right...	...	...	...	...	...	...	...	...	1	...	...	...	20
iron, loop, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	21
iron, rear roller, drop, with bolts	...	...	...	...	4	...	...	4	...	4	4	4	22
plain	...	...	...	...	2	...	...	2	...	2	2	2	23
with stop, left	...	...	...	...	1	...	...	1	...	1	1	1	24
right... ...	...	...	...	...	1	...	...	1	...	1	1	1	25
iron, tie	...	1	1	...	...	...	...	...	...	...	...	...	26
metal, with screws, arrow, elevate and depress...	...	...	...	...	...	...	...	...	2	...	...	...	27
inscription	...	...	...	...	...	...	...	...	1	...	...	...	28
instruction	...	...	...	...	...	...	...	...	...	...	...	...	29
steel, clip, with bolts, front	...	...	...	...	...	...	...	...	...	...	...	...	30
rear	...	...	...	...	...	...	...	...	...	...	...	...	31
Plugs, metal, lubricating bracket, wheel, worm	...	...	...	...	...	...	...	...	...	...	...	...	32
hydraulic buffer, filling hole, No. 8 ...	...	...	...	...	...	...	...	...	...	...	...	...	33
,, 21 ...	1	2	...	...	...	1	...	...	...	...	...	...	34
draw off...	...	...	...	...	...	...	...	...	...	...	...	...	35
Pointers, steel, arc, traversing, No. 8, with metal bracket and bolts	...	...	...	...	...	...	...	...	...	...	...	...	36
Racks, steel, with bolts, running in and out ...	...	...	...	...	...	...	...	...	...	...	...	...	37
Rails, hand, iron, rear of carriage	...	...	...	...	...	...	...	...	...	...	...	...	38
Rings, roller, steel	...	...	...	...	...	...	...	...	...	...	...	...	39
Rollers, steel, carriage, No. 4	...	...	...	...	...	...	...	...	...	...	...	...	40
,, 7	...	...	...	...	...	...	...	...	...	...	...	...	41
,, 15	...	...	...	...	...	...	...	...	...	...	...	...	42
Screws, metal, lubricating, boss-head, ⅜-inch ...	...	...	...	...	...	...	...	...	4	...	...	...	43
thumb, ⅜ ,,	...	...	...	...	...	...	...	...	...	...	...	...	44
	...	...	...	...	...	...	...	...	...	...	...	...	45
$\frac{5}{16}$,,	...	...	...	...	...	...	...	...	1	...	...	...	46
	...	...	...	...	...	...	...	...	...	...	...	...	47
steel, supporting ball, bearing trunnion, with set screw	...	...	...	...	...	...	...	...	...	...	...	...	48
Sockets, iron, priming iron, with screws	1	1	1	1	1	1	1	1	1	1	1	1	49

Where articles are interchangeable with others on the same line

‡ 2 for 12·5-in., 7 ft. recoil, small port

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in. barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
2	2	...	2	...	2	2	2	2	...	2	2	...	2	...	...	...
3	2	...	2	...	2	2	2	2	...	2	2	...	2	...	...	...
4	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...
5	2	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
13	1	...	...	...	...	1	1	1	...	1	1	...	1	...	...	...
14	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1 pair
15	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1 pair
16	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	12	...	...	...	...	...	...	1	...	...	...	...	...
18	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...
25	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
27	2	...	2	2	2	...	...	...	2	...	...	2	...	...	...	...
28	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
32	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1
34	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1‡
35	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
38	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...
41	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...
42	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	4	...	2	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	2†
45	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	1†
46	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1†
47	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	2†
48	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
49	1	...	1	...	1	1	1	1	...	1	1	...	1	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

† Per carriage.

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate,												
	Casemate, 12·5-in., 38 tons, 7-ft. recoil, Mark II., II*, and III.	Small port			Casemate, 10-in., Mark II., low.	Casemate or dwarf.							
		12·5-in., 38 tons.		10-in.		12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
		7-ft. recoil, Mark II.	6-ft. recoil.										
Spindles buffer, with collar, nut, and split key	...	...	...	...	...	...	...	...	4	...	...	...	1
iron, catch, lever, nipping	1	1	1	...	...	1	...	...	...	...	...	...	2
Springs, disc No. 33	...	...	...	...	...	...	...	...	...	...	...	...	3
,, 5	...	...	...	...	...	...	...	...	44	...	...	...	4
Steps iron, rear left	1	...	...	...	...	1	1	...	...	...	...	...	5
right	1	...	...	...	...	1	1	...	...	...	...	...	6
wood, side, right	...	1	1	...	...	...	...	...	...	...	...	...	7
Valve piston rod, hydraulic buffer	...	...	...	...	...	...	...	...	...	...	...	...	8
CYLINDER, RECOIL.													
Bands, iron, with screws, supporting pipe connecting cylinders air...	...	...	...	...	...	...	...	...	...	...	...	...	9
hydraulic...	...	...	...	...	...	...	...	...	...	...	...	...	10
Caps manganese bronze, connecting cylinder	...	...	...	...	...	...	...	...	...	...	...	...	11
metal, coupling, pipe, supply	...	...	...	...	...	...	...	...	...	...	...	...	12
Collars, iron, distance, cylinders	...	...	...	...	...	...	...	...	...	...	...	...	13
Couplings, metal, pipe, supply	...	...	...	...	...	...	...	...	...	...	...	...	14
Cylinders, manganese bronze, recoil	...	...	...	...	...	...	...	...	...	...	...	...	15
steel, air ...	...	...	...	...	...	...	...	...	...	...	...	...	16
Glands, metal adjusting, lift, valve, recoil	...	...	...	...	...	...	...	...	...	...	...	...	17
ram...	...	...	...	...	...	...	...	...	...	...	...	...	18
valve supply	...	...	...	...	...	...	...	...	...	...	...	...	19
recoil inner	...	...	...	...	...	...	...	...	...	...	...	...	20
outer	...	...	...	...	...	...	...	...	...	...	...	...	21
Packing, gland, hemp, woven, square for ram of cylinder, ⅝-inch section, length of 55 inches lengths	...	...	...	...	...	...	...	...	...	...	...	...	22
Pipes. connecting, with fittings air cylinders, steel	...	...	...	...	...	...	...	...	...	...	...	...	23
hydraulic cylinders, copper	...	...	...	...	...	...	...	...	...	...	...	...	24
Plates, metal, index, with screws	...	...	...	...	...	...	...	...	...	...	...	...	25
Plugs, manganese bronze, ram	...	...	...	...	...	...	...	...	...	...	...	...	26
Rams, manganese bronze, recoil, with nut and pin	...	...	...	...	...	...	...	...	...	...	...	...	27
Rings, metal, leather packing	...	...	...	...	...	...	...	...	...	...	...	...	28
Screws, steel, air...	...	...	...	...	...	...	...	...	...	...	...	...	29
Springs, P.B. valve, recoil	...	...	...	...	...	...	...	...	...	...	...	...	30
Tubes, steel, oil level	...	...	...	...	...	...	...	...	...	...	...	...	31
Valves P.B. oil level	...	...	...	...	...	...	...	...	...	...	...	...	32
recoil	...	...	...	...	...	...	...	...	...	...	...	...	33
metal, discharge	...	...	...	...	...	...	...	...	...	...	...	...	34
supply, aluminium bronze...	...	...	...	...	...	...	...	...	...	...	...	...	35
Washers, packing cylinder recoil lead (set of 4) sets	...	...	...	...	...	...	...	...	...	...	...	...	36
leather (sets of 16) sets	...	...	...	...	...	...	...	...	...	...	...	...	37
pipes, connecting cylinders air, leather (set of 2) sets	...	...	...	...	...	...	...	...	...	...	...	...	38
hydraulic, leather (set of 2) sets	...	...	...	...	...	...	...	...	...	...	...	...	39
ELEVATION INDICATOR.													
71/1/7983 **Arc,** graduated, metal with distance pieces and screws	...	...	...	...	...	...	...	...	...	...	...	...	40
with screws	...	...	...	...	...	...	...	...	...	...	...	...	41
Bracket, distance, steel, with fixing screws	...	...	...	...	...	...	...	...	...	...	...	...	42
Pointer, steel, with screws	...	...	...	...	...	...	...	...	...	...	...	...	43

Where articles are interchangeable with others on the same line

† Per carriage.

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	2
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
9	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	4†
23	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
30	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2†
31	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
33	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
34	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
35	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
36	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2†
38	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2†
39	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2†
40	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate,												
		Small port.				Casemate or dwarf							
	Casemate, 12·5 in., 38 tons, 7-ft. recoil, Mark II., II*, and III.	12·5-in., 38 tons.		10-in.	Casemate, 10-in., Mark II., low.	12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
		7-ft. recoil, Mark II.	6-ft. recoil.										
GEAR, STOP COMPRESSOR.													
Bars, compressor, iron	2	...	...	...	...	2	...	...	...	...	...	...	1
Pins, iron, compressor bar, with split keys	2	...	...	...	...	2	...	...	...	...	...	...	2
Rings, india-rubber, 4 in. × 1 in., 1⅞ in. hole ...	1	...	...	...	...	1	...	...	...	...	...	...	3
GEAR, ADJUSTING, HYDRAULIC BUFFERS.													
Brackets, metal, guide, pointer, with screws ...	...	...	...	...	...	...	...	...	...	...	...	...	4
Pins, iron, rod connecting levers, with nuts ...	...	...	...	...	...	...	...	...	...	...	...	...	5
Pointers, steel, index	...	...	...	...	...	...	...	...	...	...	...	...	6
Rods, iron, connecting levers	...	...	...	...	...	...	...	...	...	...	...	...	7
Studs, iron, lever, with nuts	...	...	...	...	...	...	...	...	...	...	...	...	8
Studs, steel, pointer, with nut, collar and pin ...	...	...	...	...	...	...	...	...	...	...	...	...	9
Studs, steel, pointer, with nut	...	...	...	...	...	...	...	...	...	...	...	...	10
GEAR, ELEVATING.													
	...	...	...	...	...	...	...	1	...	...	...	...	11
	...	...	...	...	...	...	...	...	...	1	...	...	12
	...	...	...	...	1	...	...	...	...	...	...	...	13
	...	...	...	...	...	...	...	...	...	...	1	...	14
	...	...	...	...	...	...	...	...	...	...	...	1	15
	...	...	...	...	...	...	...	...	...	...	...	...	16
Arcs, elevating, iron, left	...	...	...	...	...	...	...	...	...	...	...	...	17
	...	...	...	...	...	...	...	...	...	...	...	...	18
	...	...	...	...	...	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	...	...	20
	...	...	...	...	...	...	...	...	...	...	...	...	21
	...	...	...	...	...	...	...	...	...	...	...	...	22
	...	...	...	...	...	...	...	1	...	...	...	...	23
	...	...	...	...	...	...	...	...	...	1	...	...	24
	...	...	...	...	1	...	...	...	...	...	...	...	25
	...	...	...	...	...	...	...	...	...	...	1	...	26
	...	...	...	...	...	...	...	...	...	...	...	1	27
	...	...	...	...	...	...	...	...	...	...	...	...	28
Arcs, elevating, iron right	...	...	...	...	...	...	...	...	...	...	...	...	29
	...	...	...	...	...	...	...	...	...	...	...	...	30
	...	...	...	...	...	...	...	...	...	...	...	...	31
	...	...	...	...	...	...	...	...	...	...	...	...	32
	...	...	...	...	...	...	...	...	...	...	...	...	33
	...	...	...	...	...	...	...	...	...	...	...	...	34
	1	...	...	...	...	1	...	...	...	...	...	...	35
	...	...	...	...	...	...	1	...	...	...	...	...	36
Arcs, elevating, steel	...	...	...	...	...	...	...	...	...	...	...	...	37
...	...	...	...	...	...	...	...	...	...	...	...	...	38
	...	...	...	...	...	...	...	...	...	...	...	...	39
Arcs, elevating, steel, left	...	...	...	...	...	...	...	...	1	...	...	...	40
Arcs, elevating, steel, right	...	...	...	...	...	...	...	...	1	...	...	...	41

Where articles are interchangeable with others on the same line

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
								Casemate.			Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
4	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
7	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
8	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...
9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
10	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	..
11	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
16	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
17	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
18	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
20	...	...	...	...	...	...	...	..	...	1	...	...	...	...	1	...
21	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
22	...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	..	1	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
29	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
30	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...
31	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
32	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...
33	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
34	...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
37	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
38	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
39	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...
41	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...

for which a supply of spare is laid down, they are shown in *italics.*

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate,												
	Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II*. and III.	Small port.			Casemate, 10-in., Mark II., low.	Casemate or dwarf.							
		12·5-in. 38 tons.		10-in.		12·5-in., 38 tons, Mark II and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C	10-in.	9-in.	7-in.	
		7-ft. recoil, Mark II.	6-ft. recoil.										
Cams, metal	...	1	1	...	...	...	...	...	...	...	...	...	1
Capstan heads, with feathers, iron	...	...	...	...	...	...	...	...	...	...	...	2	2
Clamps, iron ... left	...	...	...	...	...	...	...	...	...	...	...	1	3
right	...	...	...	...	...	...	...	...	...	...	...	1	4
Collars, elevating screw, iron	...	3	3	...	...	...	...	...	...	...	...	...	5
leather	...	3	3	...	...	...	...	...	...	...	...	...	6
Cones, metal, friction ...	...	...	...	...	...	...	...	...	...	...	...	...	7
with screws ...	...	1	1	...	...	...	...	...	...	...	...	...	8
Cramps, iron, brake, with screws	1†	...	...	...	...	1†	1	...	...	...	...	...	9
Elevation, indicator	...	...	...	...	...	...	...	...	...	...	...	...	10
Guards, metal, bracket, wheel, worm	...	...	...	...	...	...	...	...	...	...	...	...	11
wheel, with screws, spur	1†	1	1	...	...	1†	1	...	...	...	...	...	12
spur and pinion	...	1	1	...	...	...	...	...	...	...	...	...	13
worm, left	...	...	...	1	...	...	...	...	...	...	...	...	14
right	...	...	...	1	...	...	...	...	...	...	...	...	15
Handles, iron, brake	1†	...	...	...	...	1†	1	...	...	...	...	...	16
wheel, hand ...	...	...	...	...	...	...	...	...	...	...	...	...	17
with collar and nut	...	...	...	...	...	...	...	...	...	...	...	...	18
with nut	...	...	...	...	...	...	...	...	...	...	...	...	19
Keys, steel, driving, shaft, hand, wheel	...	...	...	...	...	...	...	...	...	...	...	...	20
shaft, worm	...	...	...	...	...	...	...	...	...	...	...	...	21
Levers, wrought-iron, jamming, left	...	...	...	...	...	...	...	...	...	...	...	...	22
right	...	1	1	...	...	...	...	...	...	...	...	...	23
Links, connecting, iron	...	...	...	2	...	...	...	...	...	...	...	...	24
steel	...	1	1	...	...	...	...	...	...	...	...	...	25
Nuts, iron, jamming, with screw	...	1	1	...	...	...	...	...	...	...	...	...	26
steel, screw, elevating	...	1	1	...	...	...	...	...	...	...	...	...	27
Pinions, elevating, steel, with spindles, with pin, 1st motion	...	...	...	...	...	...	...	...	...	...	...	...	28
with collar and nuts and spring	...	...	...	...	...	...	...	...	...	...	...	...	29
nuts	...	...	...	...	...	...	...	...	...	...	...	...	30
pin, 2nd motion	...	*1*	*1*	...	...	...	...	...	...	...	...	...	31
	1†	...	...	...	...	*1*†	*1*	...	...	...	...	...	32
3rd ,,	1†	...	...	...	...	*1*†	*1*	...	...	...	...	...	33
with nut and pin, 2nd motion	...	...	...	...	...	...	...	...	...	...	...	...	34
3rd motion ...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	35
with collars and nuts, with pins, 1st motion	...	...	...	...	2	...	...	...	...	...	...	...	36
	...	...	...	...	...	...	...	2	...	...	...	...	37
	...	...	...	...	...	...	...	...	2	...	...	...	38
	...	...	...	...	...	...	...	...	...	2	...	...	39
	...	...	...	...	...	...	...	...	...	...	2	...	40
	...	...	...	...	...	...	...	...	...	...	...	...	41
	...	...	...	...	...	...	...	...	...	...	...	...	42
	...	...	...	...	...	...	...	...	...	...	...	...	43
	...	...	...	...	...	...	...	...	...	...	...	...	44
2nd ,,	...	...	...	...	2	...	...	...	...	...	...	...	45
	...	...	...	...	...	...	...	2	...	...	...	...	46
	...	...	...	...	...	...	...	...	2	...	...	...	47
	...	...	...	...	...	...	...	...	...	2	...	...	48
	...	...	...	...	...	...	...	...	...	...	2	...	49
	...	...	...	...	...	...	...	...	...	...	...	...	50

Where articles are interchangeable with others on the same line

† Mark II only.

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	2	...	2	2	...	2	...	...	...
3	...	...	...	...	...	...	...	1	...	1	1	...	1	...	...	...
4	...	...	...	...	...	...	...	1	...	1	1	...	1	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
30	...	...	...	...	...	2	...	...	...	...	...	...	...	...	1	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
41	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...
42	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...
43	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...
44	...	...	...	...	...	...	...	...	2	...	...	2	...	...	1	...
45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
50	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...

for which a supply of spare is laid down, they are shown in *italics*.

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate,												
		Small port.				Casemate or dwarf.							
		12·5-in., 38 tons.											
	Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II*. and III.	7 ft. recoil, Mark II.	6 ft. recoil.	10-in.	Casemate, 10-in., Mark II., low.	12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
Pinions, elevating, steel, with spindles, with collar and nuts, with pins, 2nd motion	...	...	...	...	...	...	...	...	...	...	...	...	1
	...	...	...	...	...	...	...	...	...	...	...	...	2
	...	...	...	...	...	...	...	...	...	...	...	...	3
3rd ,,	...	...	...	...	...	...	...	2	...	...	...	...	4
	...	...	...	...	...	...	...	...	...	...	2	...	5
	...	...	...	...	...	...	...	...	...	...	...	...	6
	...	...	...	...	...	...	...	...	...	...	...	...	7
	...	...	...	...	...	...	...	...	...	...	...	...	8
1st motion	...	1	1	...	...	...	...	...	...	...	...	...	9
	1§	...	...	...	...	1§	1	...	...	...	...	...	10
bevel	...	*1*	*1*	...	...	...	...	...	...	...	...	...	11
left	...	...	...	...	...	...	...	...	...	...	1*	...	12
	...	...	...	...	...	...	...	...	...	...	...	1	13
	...	...	...	...	...	...	...	...	...	...	...	...	14
	...	...	...	...	...	...	...	...	...	...	...	...	15
nuts and springs	1†	...	...	...	...	1‡	...	...	...	...	...	...	16
right	...	...	...	...	...	...	...	...	...	...	1*	...	17
	...	...	...	...	...	...	...	...	...	...	...	1	18
	...	...	...	...	...	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	...	...	20
bevel, iron	...	...	...	...	...	...	...	...	...	...	...	...	21
bevel, shaft, worm, manganese bronze	...	...	...	...	...	...	...	...	...	...	...	...	22
iron, spur, screw, scale, bottom	...	1	1	...	...	...	...	...	...	...	...	...	23
top	...	1	1	...	...	...	...	...	...	...	...	...	24
metal, bevel, 18 teeth, with screws	...	1	1	...	...	...	...	...	...	...	...	...	25
steel, bevel, 15 teeth, spindle wheel, hand	1‡	...	...	...	...	1‡	...	...	...	...	...	...	26
spindle worm	1‡	...	...	...	...	1‡	...	...	...	...	...	...	27
Pins, link, connecting, steel, with taper pin	...	1	1	...	...	...	...	...	...	...	...	...	28
iron	...	...	...	2	...	...	...	...	...	...	...	...	29
Plates, friction, brake, iron, pairs	1§	...	...	...	...	1§	1	...	...	...	...	...	30
metal	...	...	...	...	...	...	...	...	...	...	...	...	31
metal, yard scale	...	...	...	...	...	...	...	...	...	...	...	...	32
supporting screw scale, with screws	...	1	1	...	...	...	...	...	...	...	...	...	33
Pointers, metal, elevating arc, with screws, left	...	...	...	...	...	...	...	...	1	...	...	...	34
right	...	...	...	...	...	...	...	...	1	...	...	...	35
steel, elevating, arc	1	...	...	...	...	1	1	...	...	...	...	...	36
Racks, elevating, iron, left	...	...	...	1	...	...	...	...	...	...	...	...	37
right	...	...	...	1	...	...	...	...	...	...	...	...	39
steel	...	*1*	*1*	...	...	...	...	...	...	...	...	...	38
Rollers, metal, friction, with spindle, metal nuts, and steel pin	...	...	...	...	...	...	...	...	...	...	...	...	40
Scales, elevating, iron	...	1	1	...	...	...	...	...	...	...	2	2	41
metal, vernier, nut	...	1	1	...	...	...	...	...	...	...	...	...	42
sliding	...	1	1	...	...	...	...	...	...	...	...	...	43
Screws, elevating, No. 51, with set screw	...	*1*	*1*	...	...	...	...	...	...	...	...	...	44
iron, jamming, brake	1‡	...	...	...	...	1‡	1	...	...	...	...	...	45
scale, with collar and nut	...	1	1	...	...	...	...	...	...	...	...	...	46

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Where articles are interchangeable with others on the same line

* If fitted with capstan head elevating gear.

† For Marks II*. and III. only } demands for these parts must show the Marks of carriages to
‡ ,, ,, III. only } prevent mistakes.

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...
2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...
3	...	...	...	...	...	...	...	...	2	...	...	2	...	...	1	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...
8	...	...	...	...	...	...	...	...	2	...	...	2	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
14	...	...	...	...	...	...	...	*1*	...	...	*1*	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	*1*	...	...	*1*	...	1	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	*1*	...	...	*1*	...	...	...	1	...
20	...	...	...	...	...	...	...	...	...	*1*	...	...	*1*	...	1	...
21	...	...	...	...	...	2	...	...	...	...	...	...	...	...	1	...
22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
40	...	...	...	...	...	...	2	2	...	2	2	...	2	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
45	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*
§ For Mark II. only.

Carriages, Garrison, R.M.L.—

71
1
6682
38407
Equipt.
1860

Components.	Carriages.												
						Double plate,							
		Small port.				Casemate or dwarf.							
		12·5-in., 38 tons.											
	Casemate 12·5-in., 38 tons, 7 ft. recoil, Mark II., II*. and III.	7 ft. recoil, Mark II.	6ft. recoil.	10-in.	Casemate, 10-in., Mark II., low.	12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
Shafts, iron, with spring washers and nuts	...	...	...	...	...	...	...	...	...	...	...	...	1
Shafts, steel, hand wheel, with collars and nuts	...	...	...	...	...	...	...	...	...	...	...	...	2
Shafts, steel, worm	...	...	...	...	...	...	...	...	...	...	...	...	3
Shafts, steel, worm, elevating, with collars and pin	...	...	...	...	...	...	...	...	...	...	...	...	4
Spindles, iron, with spring washer, and nut, worm, left	...	...	...	1	1	...	...	1	...	1	1	...	5
Spindles, iron, with spring washer, and nut, worm, right	...	...	...	1	1	...	...	1	...	1	1	...	6
Spindles, steel, wheel, hand, with collars, nuts and pins	1†	...	...	...	...	1†	...	...	...	...	...	...	7
Spindles, steel, worm, with spring washer, and nut	1*	...	...	...	...	...	...	...	...	...	...	...	8
Spindles, steel, bevel wheel with collar	...	...	...	...	...	...	...	...	...	...	...	...	9
Spindles, steel, with spring washer and nut, worm, left	...	...	...	...	...	...	...	...	1	...	...	...	10
Spindles, steel, with spring washer and nut, worm, right	...	...	...	...	...	...	...	...	1	...	...	...	11
Spring, cone, friction, steel	...	...	...	...	...	...	...	...	...	...	...	...	12
Washer, spring, pinion spindle	...	...	...	...	...	...	...	...	...	...	...	...	13
Wheels, iron, hand	1	1	1	...	...	1	1	...	...	...	...	...	14
Wheels, iron, spur, 2nd motion, 51 teeth	...	...	...	...	...	...	...	...	...	...	...	...	15
Wheels, iron, spur, 2nd motion, 37 ,,	1‡	1	1	...	...	1‡	1	...	...	...	...	...	16
Wheels, iron, spur, 3rd ,, 47 ,,	...	1	1	...	...	...	...	...	...	...	...	...	17
Wheels, iron, spur, 3rd ,, 37 ,,	1‡	...	...	...	...	1‡	1	...	...	...	...	...	18
Wheels, M.C.I., hand, with securing loops	...	...	...	...	...	...	...	...	...	...	...	...	19
Wheels, metal, bevel	...	...	...	...	...	...	...	...	...	...	...	...	20
Wheels, metal, hand	...	1	1	2	2	...	..	2	2	2	2	...	21
Wheels, metal, spur, 56-teeth	...	1	1	...	...	...	...	...	...	...	...	...	22
Wheels, metal, worm	...	...	...	...	...	...	...	...	2	...	...	...	23
Wheels, metal, worm, with friction cone, and feathers, left	...	...	...	1	1	...	...	...	...	1	...	...	24
Wheels, metal, worm, with friction cone, and feathers, right	...	...	...	1	1	...	...	...	...	1	...	...	25
Wheels, metal, worm, with 2 friction cones	1*	...	...	...	...	1†	...	...	...	...	...	...	26
Wheels, metal, worm, with feathers, left	...	...	...	...	...	...	...	...	...	...	1	...	27
Wheels, metal, worm, with feathers, right	...	...	...	...	...	...	...	...	...	...	1	...	28
Wheels, steel, mitre, shaft, hand wheel, 24 teeth	...	...	...	...	...	...	...	...	...	...	...	...	29
Wheels, steel, mitre, shaft, worm, 24 teeth	...	...	...	...	...	...	...	...	...	...	...	...	30
GEAR, FOLLOWING-UP.													
Bars, iron, directing, pointer, with screw	...	1	1	...	...	...	...	...	...	...	...	...	31
Collars, iron, with screws, shaft, longitudinal	...	2	2	...	...	...	...	...	...	...	...	...	32
Collars, iron, with screws, shaft, winch handle	...	2	2	...	...	...	...	...	...	...	...	...	33
Covers, iron with screws, worm, shaft, left	...	1	1	...	...	...	...	...	...	...	...	...	34
Covers, iron with screws, longitudinal, right	...	1	1	...	...	...	...	...	...	...	...	...	35
Covers, iron with screws, worm, wheel	...	2	2	...	...	...	...	...	...	...	...	...	36

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* For Marks II*. and III. only
† For ,, III. only
‡ For ,, II. only.

Where articles are interchangeable with others on the same line demands for these parts must show the Mark of carriage to prevent mistakes.

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L.						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1§
2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	1	...	1	...	1	...	1	...	...	1	...	...	...	1§
6	...	...	1	...	1	...	1	...	1	...	...	1	...	...	...	1§
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1§
9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1§
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1§
12	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
14	...	1	...	2	2	...	...	...	...	...	...	...	...	...	...	...
15	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
21	...	...	2	...	...	2	2	...	2	...	...	2	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	1	...	1	...	...	...	1	...	...	1	...	...	...	...
25	...	...	1	...	1	...	...	...	1	...	...	1	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

§ Per district, to be retained in Army Ordnance Department charge.

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate.												
	Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II*, and III.	Small port.			Casemate, 10-in., Mark II., low.	Casemate or dwarf.							
		12·5-in., 38 tons.		10-in.		12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
		7-ft. recoil, Mark II.	6-ft. recoil.										
Guides, iron, with screws, bar, directing, pointer	...	1	1	...	...	...	...	...	...	...	...	...	1
Handles, iron, winch, No. 1	...	2	2	...	...	...	...	...	...	...	...	...	2
Keys, iron, driving, shaft	...	2	2	...	...	...	...	...	...	...	...	...	3
Pinions, metal, bevel, shaft — longitudinal, 16 teeth	...	2	2	...	...	...	...	...	...	...	...	...	4
Pinions, metal, bevel, shaft — winch handle, 20 teeth	...	2	2	...	...	...	...	...	...	...	...	...	5
Plates, metal, indicator, with screws	...	1	1	...	...	...	...	...	...	...	...	...	6
Pointers, steel, indicator	...	1	1	...	...	...	...	...	...	...	...	...	7
Screws, iron, following-up — left	...	*1*	*1*	...	...	...	...	...	...	...	...	...	8
Screws, iron, following-up — right	...	*1*	*1*	...	...	...	...	...	...	...	...	...	9
Shafts, iron — longitudinal — left	...	1	1	...	...	...	...	...	...	...	...	...	10
Shafts, iron — longitudinal — right	...	1	1	...	...	...	...	...	...	...	...	...	11
Shafts, iron — winch handle	...	1	1	...	...	...	...	...	...	...	...	...	12
Wheels, metal, worm, screw, following-up — left	...	1	1	...	...	...	...	...	...	...	...	...	13
Wheels, metal, worm, screw, following-up — right	...	1	1	...	...	...	...	...	...	...	...	...	14
Worms, iron, shaft, longitudinal — left	...	1	1	...	...	...	...	...	...	...	...	...	15
Worms, iron, shaft, longitudinal — right	...	1	1	...	...	...	...	...	...	...	...	...	16
GEAR, LIFTING.													
Bars, metal, directing, pointer, with screws	...	...	...	1	...	...	...	...	...	...	...	...	17
Blocks, iron, trunnion — left	...	...	...	1	...	...	...	...	...	...	...	...	18
Blocks, iron, trunnion — right	...	...	...	1	...	...	...	...	...	...	...	...	19
Capsquares, iron, with loops and screws — left	...	...	...	1	...	...	...	...	...	...	...	...	20
Capsquares, iron, with loops and screws — right	...	...	...	1	...	...	...	...	...	...	...	...	21
Collars, iron, with screws, shaft — wheel, spur, and pinion	...	...	...	2	...	...	...	...	...	...	...	...	22
Collars, iron, with screws, shaft — winch handle	...	...	...	4	...	...	...	...	...	...	...	...	23
Guards, metal, wheel — bevel — left	...	...	...	1	...	...	...	...	...	...	...	...	24
Guards, metal, wheel — bevel — right	...	...	...	1	...	...	...	...	...	...	...	...	25
Guards, metal, wheel — spur and pinion — left	...	...	...	1	...	...	...	...	...	...	...	...	26
Guards, metal, wheel — spur and pinion — right	...	...	...	1	...	...	...	...	...	...	...	...	27
Guides, iron, with screw, bar, directing, pointer	...	...	...	1	...	...	...	...	...	...	...	...	28
Handles, winch, No. 2	...	...	...	1	...	...	...	...	...	...	...	...	29
Keys, iron, driving, shaft	...	...	...	6	...	...	...	...	...	...	...	...	30
Lifts — hydraulic, with lever, complete	...	*1*	*1*	...	...	...	...	...	...	...	...	...	31
	...	...	...	1	...	...	...	...	...	...	...	...	32
Lifts — packing, leather — plunger, pump, cap	...	1	1	...	...	...	...	...	...	...	...	...	33
	...	...	...	1	...	...	...	...	...	...	...	...	34
Lifts — packing, leather — ram	...	1	1	...	...	...	...	...	...	...	...	...	35
	...	...	...	1	...	...	...	...	...	...	...	...	36
Lifts — plungers	...	1	1	...	...	...	...	...	...	...	...	...	37
	...	...	...	1	...	...	...	...	...	...	...	...	38
Lifts — springs, valve — inlet	...	1	1	...	...	...	...	...	...	...	...	...	39
	...	...	...	1	...	...	...	...	...	...	...	...	40
Lifts — springs, valve — outlet	...	1	1	...	...	...	...	...	...	...	...	...	41
	...	...	...	1	...	...	...	...	...	...	...	...	42
Lifts — valves — inlet	...	1	1	...	...	...	...	...	...	...	...	...	43
	...	...	...	1	...	...	...	...	...	...	...	...	44
Lifts — valves — outlet	...	1	1	...	...	...	...	...	...	...	...	...	45
	...	...	...	1	...	...	...	...	...	...	...	...	46
Pinions — bevel — in cast-iron or steel, 13 teeth	...	...	...	2	...	...	...	...	...	...	...	...	47
Pinions — bevel — iron, 11 teeth	...	...	...	2	...	...	...	...	...	...	...	...	48
Pinions — iron, spur, 12 teeth	...	...	...	2	...	...	...	...	...	...	...	...	49

Where articles are interchangeable with others on the same line

Component and Spare parts for—*continued.*

	Carriages.													Proportion of spare for each		
	R.M.L						Single plate, R.M.L.									
							Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	7-in., 6½ tons, 6 ft. parapet.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
44	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
45	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
46	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate,												
		Small port.				Casemate or dwarf.							
		12·5-in., 38 tons.											
	Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II., II.*, and III.	7-ft. recoil, Mark II.	6-ft. recoil.	10-in.	Casemate, 10-in., Mark II., low.	12·5-in., 38 tons, Mark II. and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I, E.O.C.	10-in.	9-in.	7-in.	
Plates, metal, trunnion, pointer, with screws, left	...	1	1	...	...	...	...	...	...	...	...	...	1
right	...	1	1	...	...	...	...	...	...	...	...	...	2
Pointers, metal, trunnion, left	...	1	1	...	...	...	...	...	...	...	...	...	3
right	...	1	1	...	...	...	...	...	...	...	...	...	4
iron, indicator	...	...	...	1	...	...	...	...	...	...	...	...	5
Scales, metal, trunnion, left	...	1	1	...	...	...	...	...	...	...	...	...	6
right	...	1	1	...	...	...	...	...	...	...	...	...	7
Screws, iron, lifting, left	...	...	...	1	...	...	...	...	...	...	...	...	8
right	...	...	...	1	...	...	...	...	...	...	...	...	9
Shafts, iron, cross, wheel, bevel, with pinion	...	...	...	2	...	...	...	...	...	...	...	...	10
spur, and pinion	...	...	...	1	...	...	...	...	...	...	...	...	11
longitudinal	...	...	...	2	...	...	...	...	...	...	...	...	12
steel, winch handle	...	...	...	2	...	...	...	...	...	...	...	...	13
Wheels, bevel, 32 teeth	...	...	...	2	...	...	...	...	...	...	...	...	14
and pinion, 28 and 12 teeth	...	...	...	2	...	...	...	...	...	...	...	...	15
spur, and bevel pinion, 36 and 13 teeth	...	...	...	2	...	...	...	...	...	...	...	...	16
GEAR, NIPPING.													
Blocks, nipping, lever with metal sheave	...	1	1	...	...	...	...	...	...	...	...	...	17
Collars, iron, with screws, cross, shaft	...	1	1	...	...	...	...	...	...	...	...	...	18
Counterweights, iron, with bolts, lever, lifting	1	...	...	...	...	1	1	...	...	...	...	...	19
nipping	...	1	1	...	...	...	...	...	...	...	...	...	20
Covers, iron, with screws, pinion, segment	...	1	1	...	...	...	...	...	...	...	...	...	21
Keys, iron, driving, shaft	2	2	2	...	...	2	2	...	...	...	...	...	22
	...	*1*	*1*	...	...	...	...	...	...	...	...	...	23
Levers, iron, nipping, with pin	*1*	...	...	...	...	*1*	*1*	...	...	...	...	...	24
	...	...	...	...	...	...	...	...	...	...	...	...	25
lifting, with collar and split key, left	1	1	1	...	...	1	1	...	...	...	...	...	26
right	1	1	1	...	...	1	1	...	...	...	...	...	27
Links, iron connecting, left	2	2	2	...	...	2	2	...	...	...	...	...	28
right	2	2	2	...	...	2	2	...	...	...	...	...	29
Pawls, iron, retaining, lever, nipping	1	1	1	...	...	1	1	...	...	...	...	...	30
Pinions, metal, segment, with screw, left	...	1	1	...	...	...	...	...	...	...	...	...	31
right	...	1	1	...	...	...	...	...	...	...	...	...	32
	...	*2*	*2*	...	...	...	...	...	...	...	...	...	33
Pins, iron, with collar and split key, connecting links	*4*	...	...	...	...	*4*	*4*	...	...	...	...	...	34
	...	..	...	...	...	...	...	...	...	...	...	...	35
rod or link, eccentric	1	...	...	...	...	1	1	...	...	...	...	...	36
Plates, iron, guide	2	2	2	...	...	2	2	...	...	...	...	...	37
	...	*2*	*2*	...	...	...	...	...	...	...	...	...	38
sprocket	*2*	...	...	...	...	*2*	*2*	...	...	...	...	...	39
	...	...	...	...	...	...	...	...	...	...	...	...	40
Rods, iron, or link, eccentric with keep screw	1	...	...	...	...	1	1	...	...	...	...	...	41
Shafts, iron, cross ...	1	...	...	...	...	1	1	...	...	...	...	...	42
left	...	1	1	...	...	...	...	...	...	...	...	...	43
right	...	1	1	...	...	...	...	...	...	...	...	...	44
Spindles, iron, eccentric	1	...	...	...	...	...	...	...	...	...	...	...	45
Tumblers, steel, with collars and split keys	...	2	2	...	...	...	...	...	...	...	...	...	46

Where articles are interchangeable with others on the same line

Component and Spare parts for—*continued.*

	Carriages.												Proportion of spare for each		
	R.M.L.					Single plate, R.M.L.									
						Casemate.				Dwarf.					
	15·5-in. converted, small port, Mark I.	10·4 in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9 in., Mark II.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
17	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
25	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
26	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
35	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
40	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

Carriages, Garrison, R.M.L.—

Components.	Carriages.												
	Double plate,												
		Small port.				Casemate or dwarf.							
		12·5 in., 38 tons.											
	Casemate, 12·5-in., 38 tons, 7 ft. recoil, Marks II, II*, and III.	7 ft. recoil, Mark II.	6ft. recoil.	10-in.	Casement, 10-in., Mark II., low.	12·5-in., 38 tons, Marks II and III.	12-in., 35 tons.	11 or 12-in., 25 tons.	10-in., Mark I., E.O.C.	10-in.	9-in.	7-in.	
GEAR PREVENTOR.													
Blocks, metal, jamming	1	1	1	...	...	1	...	...	...	...	...	...	1
Collars, iron, adjusting compressor lever	1	...	...	...	...	1	...	...	...	...	...	...	2
Levers, iron, compressor	1	1	1	...	...	1	...	...	...	...	...	...	3
Levers, iron, rocking, with keep screw	1	1	1	...	...	1	...	...	...	...	...	...	4
Links, iron, connecting	...	2	2	...	...	...	...	...	...	...	...	...	5
Nuts, metal, compressor	1	1	1	...	...	1	...	...	...	...	...	...	6
Pins, iron, block, jamming	1	1	1	...	...	1	...	...	...	...	...	...	7
Pins, iron, link, connecting, with split key	...	1	1	...	...	...	...	...	...	...	...	...	8
Pins, iron, joint, rocking lever	...	1	1	...	...	...	...	...	...	...	...	...	9
Pins, iron, joint, rocking lever, with split key	1	...	...	...	...	1	...	...	...	...	...	...	10
Screws, iron compressor, with collar, nut and key	1	1	1	...	...	1	...	...	...	...	...	...	11
Tumblers, iron, nut, screw compressor, with collars and keys	...	1	1	...	...	...	...	...	...	...	...	...	12
GEAR, RUNNING-UP.													
Axles, iron, roller, front, with split keys	2	...	...	...	...	2	2	...	...	...	...	...	13
	...	2	2	...	...	...	...	...	...	...	...	...	14
	...	...	...	2	...	...	...	...	...	...	...	...	15
	...	...	...	...	...	...	...	2	...	2	...	...	16
	...	...	...	...	...	...	...	...	...	...	2	...	17
	...	...	...	...	...	...	...	...	...	...	...	2	18
	...	...	...	...	2	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	...	...	20
	...	...	...	...	...	...	...	...	...	...	...	...	21
	...	...	...	...	...	...	...	...	...	...	...	...	22
	...	...	...	...	...	...	...	...	...	...	...	...	23
Axles, iron, roller, front, with collars and split keys	...	...	...	...	...	...	...	...	2	...	...	...	24
Axles, iron, roller, rear, eccentric, with split keys	...	...	...	...	...	...	...	...	...	...	...	...	25
Axles, iron, roller, rear, eccentric	...	...	...	...	...	...	...	...	...	...	...	2*	26
Jacks, lifting, hydraulic, rear roller, with lever and release valve	*1*†	*1*	*1*	...	...	*1*†	*1*†	...	...	...	...	...	27
Keys, wrought-iron, driving, shaft	1	1	1	...	...	1	1	...	...	...	...	...	28
Keys, wrought-iron, securing axles, eccentric	...	...	...	...	...	...	...	...	...	...	...	...	29
Levers, wrought-iron, connecting, hydraulic, rear eccentric, shaft, with pins	...	*1*	*1*	...	...	...	...	...	...	...	...	...	30
	1	...	...	...	...	*1*	*1*	...	...	...	...	...	31
Packings, leather, jack hydraulic, rear roller, set (of 11)	*1*	*1*	*1*	...	...	*1*	*1*	...	...	...	...	...	32
Pointers, steel, shaft, eccentric, with screws	1	...	...	...	...	1	1	...	...	...	...	...	33

Where articles are interchangeable with others on the same line

*** If fitted with bar, connecting. † With**

Component and Spare parts for—*continued.*

	Carriages.												Proportion of spare for each		
	R.M.L.					Single plate, R.M.L.									
						Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in., Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II,	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	2	2	...	...	2	...	...	...	...	...
21	...	...	...	...	...	...	...	...	2	...	...	2	...	...	...
22	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	2	...	...	2	1	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1 per gun.
28	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1 for 12·5-in. 15°
29	...	...	...	...	...	...	...	...	4	...	...	4	...	...	
30	1	...	...	...	...	...	...	...	...	...	...	...	1	...	
31	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
32	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2 for 38 and 35 tons.
33	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*
spanner when fitted outside, lowering.

Carriages, Garrison, R.M.L.—

Components.	Carriages. Casemate, 12·5-in., 38 tons, 7 ft. recoil, Mark II, II*, and III.	Carriages. Double plate, Small port. 12·5-in., 38 tons. 7 ft. recoil, Mark II.	Carriages. Double plate, Small port. 12·5-in., 38 tons. 6 ft. recoil.	Carriages. Double plate, Small port. 10-in.	Carriages. Double plate, Casemate, 10-in., Mark II., low.	Carriages. Double plate, Casemate or dwarf. 12·5-in., 38 tons, Mark II and III	Carriages. Double plate, Casemate or dwarf. 12-in., 35 tons.	Carriages. Double plate, Casemate or dwarf. 11 or 12-in., 25 tons.	Carriages. Double plate, Casemate or dwarf. 10-in., Mark I. E.O.C.	Carriages. Double plate, Casemate or dwarf. 10-in.	Carriages. Double plate, Casemate or dwarf. 9-in.	Carriages. Double plate, Casemate or dwarf. 7-in.	
Rollers, carriage, front, No. 23	2	...	...	...	...	2	2	...	...	...	...	...	1
,, ,, ,, 24	...	2	2	...	...	...	...	...	...	...	...	...	2
,, ,, ,, 28	...	...	...	2	...	...	...	...	...	...	...	...	3
,, ,, ,, 27	...	...	...	...	2	...	...	...	...	...	...	...	4
,, ,, ,, 25	...	...	...	...	...	...	...	2	...	2	2	...	5
,, ,, ,, 29	...	...	...	...	...	...	...	...	...	...	...	2	6
,, ,, ,, 26	...	...	...	...	...	...	...	...	...	...	...	...	7
,, ,, ,, 30	...	...	...	...	...	...	...	...	...	...	...	...	8
,, ,, ,, 33	...	...	...	...	...	...	...	...	2	...	...	...	9
,, ,, rear, No. 67	...	2	2	...	...	...	...	...	...	...	...	...	10
,, ,, ,, 70	...	...	...	2	...	...	...	...	...	...	...	...	11
,, ,, ,, 66	2	...	...	...	...	2	2	...	...	...	...	...	12
,, ,, ,, 68	...	...	...	...	2	...	...	2	2	2	2	...	13
,, ,, ,, 71	...	...	...	...	...	...	...	...	...	...	...	2	14
,, ,, ,, 69	...	...	...	...	...	...	...	...	...	...	...	...	15
,, ,, ,, 72	...	...	...	...	...	...	...	...	...	...	...	...	16
Shafts, iron, eccentric, rear, double, with coupling	...	1	1	...	...	...	...	...	...	...	...	...	17
	1	...	...	...	...	1	1	...	...	...	...	...	18
	...	...	...	1	...	...	...	...	...	...	...	...	19
,, coupling, and split keys	...	...	...	...	...	...	...	...	...	...	...	...	20
,, split keys	...	...	...	...	...	...	...	1	...	...	...	...	21
	...	...	...	...	...	...	...	...	...	...	...	...	22
	...	...	...	...	1	...	...	...	...	...	...	...	23
	...	...	...	...	...	...	...	...	...	1	...	...	24
	...	...	...	...	...	...	...	...	...	...	1	...	25
	...	...	...	...	...	...	...	...	...	...	...	1	26
	...	...	...	...	...	...	...	...	1	...	...	...	27
	...	...	...	...	...	...	...	...	...	...	...	...	28
	...	...	...	...	...	...	...	...	...	...	...	...	29
Sockets, iron, bar, connecting	...	...	...	...	...	...	...	...	...	...	...	2*	30
,, lever, with pawl, pin, and split key, No. 1, left ...	...	...	...	...	1	...	...	1	1	1	1	1	31
,, ,, ,, 2, right ...	...	...	...	...	1	...	...	1	1	1	1	1	32
,, ,, ,, 3, left ...	...	...	...	1	...	...	...	...	...	...	...	...	33
,, ,, ,, 4, right ...	...	...	...	1	...	...	...	...	...	...	...	...	34
,, ,, ,, 8	...	...	...	...	...	...	...	...	...	...	...	...	35
Spindles, steel, jack hydraulic, rear roller	1	1	1	...	...	1	1	...	...	...	...	...	36
Valves, release, jack, hydraulic, rear roller... ...	1†	...	...	...	...	1‡	1‡	...	...	...	...	...	37
GEAR, TRAVERSING.													
Covers, iron, pinion, with screws, 1st motion	...	...	...	...	...	...	...	...	...	...	...	...	38
,, 2nd ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	39
Pinions, steel, spindle, bevel, 1st motion, 12 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	40
,, spur, 2nd motion, 14 teeth	...	...	...	...	...	...	...	...	...	...	...	...	41

Where articles are interchangeable with others on the same line

* If fitted with bar, connecting. † With spanner when fitted outside, lowering.

Component and Spare parts for—*continued.*

	Carriages.												Proportion of spare for each		
	R.M.L.					Single plate, R.M.L.									
						Casemate.				Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in. Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	2	2	...	...	2	...	...	...	...	...
8	...	...	...	...	...	...	...	...	2	...	...	2	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
13	...	...	2	...	2	...	...	...	...	...	...	...	1	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
15	...	...	...	...	...	*2*	*2*	...	...	*2*	...	...	1	...	...
16	...	...	...	...	...	...	...	...	*2*	...	...	*2*	1	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
18	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
20	...	...	...	...	...	...	*1*	...	...	1	...	...	1	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
22	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
28	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
31	...	...	1	...	1	1	1	...	...	1	...	...	...	...	1
32	...	...	1	...	1	1	1	...	...	1	...	...	...	...	1
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
35	...	...	...	...	...	...	...	...	*2*	...	...	2	...	...	2
36	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2 for 38 and 35 tons.
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
38	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

‡ When the jacks are fitted with outside lowering arrangement.

Carriages, Garrison, R.M.L.—

Components.	Carriages. Double plate, Casemate, 12·5-in., 38 tons, 7 ft. recoil, Marks II, II*, and III.	Small port. 12·5-in., 38 tons. 7 ft. recoil, Mark II.	Small port. 12·5-in., 38 tons. 6 ft. recoil.	Small port. 10-in.	Casemate, 10-in., Mark II., low.	Casemate or dwarf. 12·5-in., 38 tons, Marks II and III.	Casemate or dwarf. 12-in., 35 tons.	Casemate or dwarf. 11 or 12-in., 25 tons.	Casemate or dwarf. 10-in., Mark I., E.O.C.	Casemate or dwarf. 10-in.	Casemate or dwarf. 9-in.	Casemate or dwarf. 7-in.	
Plates, metal, arrow, with screws	...	...	...	...	...	...	...	...	...	...	...	...	1
Screws, metal { boss-head, pinion, covers, $\frac{3}{8}$-inch ...	...	...	...	...	...	...	...	...	...	...	...	...	2
Screws, metal { thumb, lubricating, $\frac{3}{8}$-inch	...	...	...	...	...	...	...	...	...	...	...	...	3
Shafts, steel, 2nd motion, with nuts and pins ...	...	...	...	...	...	...	...	...	...	...	...	...	4
Wheels { iron, hand	...	...	...	...	...	...	...	...	...	...	...	...	5
Wheels { steel, bevel, 2nd motion, 36 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	6
RACER, WITH RACK.													
Bolts, holding-down, iron, with nuts { inner ...	...	...	...	...	...	...	...	...	...	...	...	...	7
Bolts, holding-down, iron, with nuts { outer ...	...	...	...	...	...	...	...	...	...	...	...	...	8
Plates, holding-down, steel	...	...	...	...	...	...	...	...	...	...	...	...	9
Racks, traversing, steel, with screws	...	...	...	...	...	...	...	...	...	...	...	...	10
Racer, steel	...	...	...	...	...	...	...	...	...	...	...	...	11
TROLLEY, LOADING.													
Axles, steel, with collars and split keys	...	...	...	...	...	...	...	...	...	...	...	...	12
Bands, steel, securing, axle, with bolts and nuts	...	...	...	...	...	...	...	...	...	...	...	...	13
Brackets, iron { lever, pawl	...	...	...	...	...	...	...	...	...	...	...	...	14
Brackets, iron { pawl	...	...	...	...	...	...	...	...	...	...	...	...	15
Frames, steel	...	...	...	...	...	...	...	...	...	...	...	...	16
Levers, iron, pawl	...	...	...	...	...	...	...	...	...	...	...	...	17
Pawls, steel	...	...	...	...	...	...	...	...	...	...	...	...	18
Pins, steel, lever, pawl, with collar and split key { long ...	...	...	...	...	...	...	...	...	...	...	...	...	19
Pins, steel, lever, pawl, with collar and split key { short ...	...	...	...	...	...	...	...	...	...	...	...	...	20
Screws, metal, thumb, lubricating, $\frac{5}{16}$-inch ...	...	...	...	...	...	...	...	...	...	...	...	...	21
Springs, steel, pawl	...	...	...	...	...	...	...	...	...	...	...	...	22
Trucks, cast-iron	...	...	...	...	...	...	...	...	...	...	...	...	23

Where articles are interchangeable with others on the same line
* Per carriage.

Component and Spare parts for—*continued.*

	Carriages.												Proportion of spare for each		
	R.M.L.					Single plate, R.M.L.									
							Casemate.			Dwarf.					
	12·5-in. converted, small port, Mark I.	10·4-in., barbette.	10-in. Mark III.	High angle, 9-in. and 10-in., Mark III.	9-in., Mark II.	11 or 12-in., 25 tons.	9-in., Mark I.	9-in., Mark II.	7-in.	9-in., Mark I.	9-in., Mark II.	7-in.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	8	...	...	...	...	...	...	...	...	...	...	2*
3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1*
4	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	15	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	30	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	1	...	...	...	..	...	...	...	...	...	...	...
20	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	4	...	...	...	...	...	...	...	...	...	...	1†
22	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1†
23	...	...	...	4	...	...	...	...	...	...	...	...	..	...	...

for which a supply of spare is laid down, they are shown in *italics*.

† Per trolley.

SLIDES, L, R.M.L.—COMPONENT

Components.	Slides, L. Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft. recoil, Marks II. and III.	Small port. 10-in.	Casemate, R.M.L. To work within length. 11 or 12-in., 25 tons.	To work within length. 10-in. Mark I.	To work within length. 10-in. Mark II.	To work within length. 10-in. Special.	To work within length. 9-in.	12·5-in., 38 tons. 7 ft. recoil.	12·5-in., 38 tons. 6 ft. recoil. Marks II. and III.	12·5-in., 38 tons. 6 ft. recoil. Mark III., special.	11 or 12-in., 25 tons. Side.	11 or 12-in., 25 tons. Rear.	10 in. Side.	10 in. Rear.	10 in. Mark II.	9-in. Side.	9-in. Rear.	7-in.	Single plate. 11 or 12-in., 25 tons, to work within length.	Single plate. 9-in.	Single plate. 7-in.	R.M.L. 10 4-in., barbette.	
Axles, roller, rear, with nuts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1
Axles, steel, truck, with nut and key, front	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	2
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Axles, steel, truck, with nut and key, rear	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	4
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Axles, steel, truck, with collars and keys, plain, front	...	...	...	2	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	2	...	...	...	6
Axles, steel, truck, with collars and keys, plain, front or rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Axles, steel, truck, with collars and keys, bevel wheel, rear	...	...	...	2	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	2	...	...	...	8
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
Axles, steel, truck, with nut and key, plain, front or rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
Axles, steel, truck, with nut and key, bevel wheel, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Axles, steel, truck, with nut and key, bevel wheel, rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Axles, steel, truck, with nut and key, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
Axles, steel, truck, with nut and key, rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
Axles, steel, truck, with nuts, plain, front	...	...	2	...	2	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	16
	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	‡4	...	‡4	‡4	...	17
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
Axles, steel, truck, with nuts, plain, rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
Axles, steel, truck, with nuts, bevel wheel, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
Axles, steel, truck, with nuts, bevel wheel, rear	...	...	2	...	2	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	27
	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	28
	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	30
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	82
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
Axles, steel, truck, front, left, with collar and nut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
Axles, steel, truck, front, right, with nut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
Axles, steel, truck, rear, with nuts, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
Axles, steel, truck, rear, with nuts, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
Axles, steel, truck, spur wheel, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
Bands, iron, securing, hydraulic, buffer, front	...	2	2	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	1	1	1	1	...	39
Bands, iron, securing, hydraulic, buffer, rear	...	2	2	1	1	...	...	1	...	...	...	1	1	1	1	...	1	1	1	1	1	1	...	40
Bearings, metal, flange, shaft, cross, plain	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	41
Bearings, metal, flange, shaft, cross, with cap	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	42
Bearings, metal, screw, adjusting, lever clutch	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	43
Bearings, metal, screw, compresser	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	44

Where articles are interchangeable with others on the same line

* Front also. † Rear also.

AND SPARE PARTS FOR.

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C., R.M L.						12·5-in., converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9 in., Marks III. and IV.		12·5-in., 38 tons, Marks II and III.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								C	D	C	A	C		A		C		D	A	C		D	A	C	D	9-in.	7-in.				
											Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.									
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
3	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
4	...	...	...	...	...	...	...	...	...	...	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
5	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
6	...	...	...	...	...	...	...	...	...	...	...	*‡2*	*‡2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	1	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
9	...	...	...	...	...	...	...	...	...	...	*2*	*1	*1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
10	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
11	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
15	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	*2*	...	...	*†2*	...	...	...	...	...	...	...	...	...	...	1	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	...	...	*†2*	*2*	...	*†2*	*‡4*	*‡4*	...	1	...	...
18	...	‡2	...	...	...	...	...	...	...	...	...	...	...	...	...	*‡2*	*‡2*	...	...	...	...	...	...	...	...	...	...	...	1	...	...
19	...	...	...	...	‡2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*‡2*	*‡2*	...	*†2*	*‡4*	*2*	...	...	...	1	...	...
20	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
21	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
22	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
23	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	1	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...
25	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	1	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
29	...	1	...	...	...	...	...	...	...	...	...	...	...	*2*	*2*	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	1	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...
32	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	1	...	...
33	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
34	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
35	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
36	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
37	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
38	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
39	1	1	1	2	1	2	2	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
40	1	1	1	2	1	2	2	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

‡ Front or rear.

Slides, L, R.M.L.—Component

Components.	Slides, L. Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft. recoil, Marks II. and III.	Small port. 10-in.	Casemate, R.M.L. To work within length. 11 or 12-in., 25 tons.	To work within length. 10-in. Mark I.	To work within length. 10-in. Mark II.	To work within length. 10-in. Special.	To work within length. 9-in.	12·5-in., 38 tons. 7 ft. recoil.	12·5-in., 38 tons. 6 ft. recoil. Marks II. and III	12·5-in., 38 tons. 6 ft. recoil. Mark III., special.	11 or 12-in., 25 tons. Side.	11 or 12-in., 25 tons. Rear.	10-in. Side.	10-in. Rear.	10-in. Mark II.	9-in. Side.	9-in. Rear.	7-in.	Single plate. 11 or 12-in., 25 tons, to work within length	Single plate. 9-in.	Single plate. 7-in.	R.M.L. 10·4-in., barbette.	
Bearings, metal, shaft, 1st motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
2nd ,,	...	...	...	...	1	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2
3rd ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
winch handle, left	...	...	...	1	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	4
winch handle, right	...	...	...	1	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	5
cross	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Blocks, iron, with metal sheaves, snatch, 5-inch, for loading tackle, with shackles	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	7
	...	...	...	2	2	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	8
	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	10
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	11
	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
cast-iron	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
packing, hydraulic, buffer, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
packing, hydraulic, buffer, rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
wood, packing, bracket, pointer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
wood, screw, supporting, girders	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
Bollards, wood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	19
Bolts, wrought-iron, flange, with collars and nuts, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
Box, grease, half round, 3 lb.	1	1	...	1	...	...	...	...	1	1	1	1	1	...	...	...	...	...	...	1	...	...	...	22
Brackets, cast-iron, with bolts or screws, derrick, loading, —	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
derrick, loading, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
derrick, loading, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
guide, lever, clutch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
guide, roller	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
lever, clutch	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	1	...	...	...	28
running-back, with metal sheave, pin, and split key	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	29
shaft, 2nd motion	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
shaft, 3rd ,,	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
shaft, bollard, front	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	32
shaft, bollard, rear	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	33
shaft, clutch pinion, inside, left	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	34
shaft, clutch pinion, inside, right	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	35
shaft, clutch pinion, outside, left	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	36
shaft, clutch pinion, outside, right	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	37
shaft, clutch pinion and wheel sprocket, inside	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
shaft, clutch pinion and wheel sprocket, outside, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
shaft, clutch pinion and wheel sprocket, outside, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
shaft, cross, centre	...	...	...	2	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	2	...	...	...	41
shaft, cross, left	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	1	42
shaft, cross, right	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	1	43

Where articles are interchangeable with others on the same line

*** Special pattern for each Mark of slide.**

and Spare parts for—*continued*.

	Slides, L.																												Proportion of spare for each		
	7-ft. parapet, C, R.M.L.						12·5-in. converted, small port. Mark I.	Dwarf, R.M.L.																			7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. each of nature
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in. E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons, Marks II. and III.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								C	D	C	A	C		A		C		D	A	C		D	A	C	D	9-in.	7-in.				
											Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.									
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1
4	...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...		...
7	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1, and 5 springs, with 2 screws.	...
8	...	...	...	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...		...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
12	...	2	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
13	...	...	2	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
14	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
15	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	2	...	*2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
22	1	...	...	...	...	...	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	2	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
24	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	1	1	1	1	1	...	..	1	†2	1	1	1	1	1	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	1	1	...	...	...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
33	...	...	1	1	...	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...
43	..	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

† 1 right and 1 left.

Slides, L, R.M.L.—Component

Components.					Slides, L.																							
					Small port.			Casemate, R.M.L.																			R.M.L. 10·4-in., barbette.	
					12·5-in., 38 tons.		10-in.	To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.		7-in.	Single plate.				
					7 ft. recoil.	6 ft. recoil. Marks II. and III.		11 or 12-in., 25 tons	10-in.			9-in.	7 ft. recoil.	6 ft. recoil.		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
									Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Brackets, with bolts or screws,	cast-iron	shaft		... .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
			longitudinal, long	centre	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
				front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
				rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
			longitudinal, short	front	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
				rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
			traversing	front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
				rear	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	8
			wheels. sprocket	centre	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
				left ...	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	10
				right	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	11
			winch handle	centre...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
				front ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
				left ...	...	...	1	...	...	...	1	...	1	1	1	1	...	1	...	1	1	...	...	...	...	...	...	14
				right ...	...	...	1	...	...	...	1	...	1	1	1	1	...	1	...	1	1	...	...	...	...	...	...	15
		spindle	2nd motion ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	16
			gudgeon		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
			pinion, front ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
			winch handle	left ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
				right ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
			wheels, spur and pinion, 2nd motion	left	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
				right	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
			traversing, rear ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
	iron		bar, preventor... ...		4	4	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	24
			compressor plates	left ...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	25
				right ...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	26
			drip pan		...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
			guide, lever-clutch ...		...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	28
			hydraulic buffer ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
		lever	clutch		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
			,, with collar and key ..		1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
			hydraulic jack	front...	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	32
				rear ...	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	33
			running-back gear ...		...	...	...	...	1	...	...	1	...	...	...	...	...	1	1	...	1	1	...	...	...	...	...	34
		sidearms	front	double ...	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	...	1	1	1	1	1	1	...	35
				single ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	36
			rear	double ...	...	...	...	1	...	1	1	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	37
				single... ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
				single, rammer ...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	1	1	...	39
				single, sponge ...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	1	1	...	40
			... ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41
			stop, compressor, lever		...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	42
		supporting	bracket, pointer ...		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	1	43
			lever, rocking gear, preventor ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44
			steps, sighting	inner ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	45
				outer ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	46

Where articles are interchangeable with others on the same line

* 2 brackets will be required for mountings in emplacements more than 75 feet above sea level.

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C., R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7 in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
								12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A	C			D	A	C		D									
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III and IV.		C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	1	1	1	1	1	1	...	...	...	...	...	1	1	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...
3	1	1	1	1	1	1	...	...	...	...	...	1	1	...	...	1	1	..	...	1	1	...	...	...	...	...	...	...	...	...	...
4	1	1	1	1	1	1	...	...	...	...	...	1	1	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...
5	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
6	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	..	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
17	1	1	...	1	1	1	...	...	...	...	...	1	1	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	4	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	1	1	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	1	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
33	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	1	...	...	1	1	...	...	...	...	...	...	...	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
35	1	1	...	1	1	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1	...	...	...
37	1	1	...	1	1	1	...	...	...	...	1	1	1	1	1	1	...	...	1	1	1	...	...	...	...	...	...	†1	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1	1	1	1	1	1	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1	1	1	1	1	1	1	...	...	...
41	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	1	1	1	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
45	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.
Only required for mountings in emplacements more than 75 feet above sea level.

Slides, L, R.M.L.—Component

		Components.	Slides, L.																						
			Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft. recoil, Marks II. and III.	Small port. 10-in.	Casemate, R.M.L. To work within length. 11 or 12-in., 25 tons.	Casemate, R.M.L. To work within length. 10-in. Mark I.	Casemate, R.M.L. To work within length. 10-in. Mark II.	Casemate, R.M.L. To work within length. 10-in. Special.	Casemate, R.M.L. To work within length. 9-in.	Casemate, R.M.L. 12·5-in., 38 tons. 7 ft. recoil.	Casemate, R.M.L. 12·5-in., 38 tons. 6 ft. recoil. Marks II. and III.	Casemate, R.M.L. 12·5-in., 38 tons. 6 ft. recoil. Mark III., special.	Casemate, R.M.L. 11 or 12-in., 25 tons. Side.	Casemate, R.M.L. 11 or 12-in., 25 tons. Rear.	Casemate, R.M.L. 10-in. Side.	Casemate, R.M.L. 10-in. Rear.	Casemate, R.M.L. 10-in. Mark II.	Casemate, R.M.L. 9-in. Side.	Casemate, R.M.L. 9-in. Rear.	Casemate, R.M.L. 7-in.	Casemate, R.M.L. Single plate. 11 or 12-in., 25 tons, to work within length	Casemate, R.M.L. Single plate. 9-in.	Casemate, R.M.L. Single plate. 7-in.	R.M.L. 10·4-in. barbette.	
Brackets, with bolts or screws	iron	top, front, bollard, shaft	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		tripper, with collar and split key	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2
	metal	fork, tightening, chain ... left	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	3
		fork, tightening, chain ... right	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	4
		indicator	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	5
		running in and out gear, shaft, 1st and 2nd motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	6
		running lever, clutch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
		running lever, iron-pointed pairs	...	...	2	2	2	2	2	2	...	...	...	2	2	2	2	2	2	2	2	2	2	2	...	8
		running back, block	...	...	1	1	1	...	...	1	...	...	...	1	1	1	1	...	1	1	...	1	...	...	...	9
		running back, with metal sheave, pin, and split key ...	...	...	1	1	1	...	...	1	...	...	...	1	1	1	1	...	1	1	...	1	...	...	...	10
		screw, adjusting, lever, clutch, left	1	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	11
		screw, adjusting, lever, clutch, right	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	12
		shaft, 2nd motion ...	...	...	...	...	1	...	...	1	2	2	...	...	...	...	...	...	...	...	...	2	...	...	...	13
		shaft, 3rd motion, front ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	14
		shaft, 3rd motion, rear ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	15
		shaft, 3rd motion, left ...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
		shaft, 3rd motion, right ...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
		shaft, bollard, front ...	...	...	1	1	1	...	...	1	...	...	...	1	1	1	1	...	1	1	...	1	...	...	...	18
		supporting, battery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	19
		supporting, firing key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	20
		shaft, longitudinal, rear	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
		shaft, traversing, front ...	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	22
		shaft, traversing, 1st, 2nd, and 3rd motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	23
		shaft, winch handle ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	...	24
		spindle, pinion, rear ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
		thrust	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	26
		winch handles, pairs	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	27
	M.C. steel	derrick, loading, left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
		derrick, loading, right ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
		screws, supporting girder, bottom	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
		screws, supporting girder, top, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
		screws, supporting girder, top, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
		traversing, rear, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
		traversing, rear, right ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
	steel	axles, truck front, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
		axles, truck front, right ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
		axles, truck front, supporting springs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
		step sighting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	38
		supporting bracket, shaft, traversing, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
		rod, piston ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	40

Where articles are interchangeable with others on the same line

* Special pattern for each of mark slide.

and Spare parts for—*continued*.

	Slides, L.																												Proportion of spare for each		
	7-ft. parapet C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7·in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in. E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7·in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
8	2	2	2	2	2	2	...	...	...	...	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...	...
9	1	1	1	...	1	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
10	1	1	1	1	1	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	2	...	*2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...

for which a supply of spare is laid down, they are shown in *italics*.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R.M.L.																				
	12·5-in., 38 tons.		10-in.	To work within length.					12·5 in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.		7-in.	Single plate.			R.M.L. 10·4-in., barbette.	
	7 ft. recoil.	6 ft. recoil, Marks II. and III.		11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft recoil.		Side	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
					Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Buffers, front, including hydraulic	...	2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	4
	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	5
	...	...	*2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	1	...	...	7
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	8
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
hydraulic with taper bars	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
front, including stop, with disc springs, spindles, and keys, left...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
wood, block, with disc springs, spindles, and keys ... ... iron rings	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
angle bar	...	...	1	1	1	...	...	1	1	1	1	1	1	1	1	...	1	1	1	1	1	1	...	14
disc springs, spindles, and keys	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	15
rear, including bracket, with cast-iron packing collars, disc springs, spindles, and keys	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
stop, with disc springs, spindle, and key, right	...	...	1	1	1	...	...	1	1	1	1	1	1	1	1	...	1	1	1	1	1	1	...	17
left	...	...	1	1	1	...	...	1	1	1	1	1	1	1	1	...	1	1	1	1	1	1	...	18
disc springs, spindles, and keys	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	19
wood block, with bolts, and disc springs	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
Capstan head, iron screw supporting, girders	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
Catches, metal, pointer ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	22
Clips, iron, securing, hydraulic buffer, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
Derricks, iron, loading	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
with bearer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Flanges, trucks, steel, front ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
rear ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
iron, prs., front, left	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	28
right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	29
rear, left	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	30
right	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	31
iron, rear, left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
right ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
Ladders, iron, with bolts, rear ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
step, sighting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	35
side	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	36

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C, R.M.L.						12·5 in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Mark III. and IV.		12·5-in., 38 tons. Marks II. and III.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								C	D	C	A	C		A		C		D	A	C		D	A	C	D	9-in.	7-in.				
											Rear.	Central.	Side	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.									
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*2	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
3	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
4	1	...	...	...	...	...	...	...	...	...	*1*	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	1	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	*1*	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*2	...
7	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	*1*	*1*	...	...	...	*1*	...	...	...	1	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	*1*	...	*1*	...	...	1	...
9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
13	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	1	1	...	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	1	1	...	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...
18	1	1	...	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	2	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	2	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
28	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
29	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
30	1	1	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
31	1	1	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
32	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

* *i.e.*, 1 left and 1 right.

Slides, L, R.M.L.—Component

Components.		Slides, L. Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft. recoil, Marks II. and III.	Small port. 10-in.	Casemate, R.M.L. To work within length. 11 or 12-in., 25 tons.	To work within length. 10-in. Mark I.	To work within length. 10-in. Mark II.	To work within length. 10-in. Special.	To work within length. 9-in.	12·5-in., 38 tons. 7 ft. recoil.	12·5-in., 38 tons. 6 ft. recoil. Marks II. and III.	12·5-in., 38 tons. 6 ft. recoil. Mark III., special.	11 or 12-in., 25 tons. Side.	11 or 12-in., 25 tons. Rear.	10-in. Side.	10-in. Rear.	10-in. Mark II.	9-in. Side.	9-in. Rear.	7-in.	Single plate. 11 or 12-in., 24 tons, to work within length.	Single plate. 9-in.	Single plate. 7-in.	R.M.L. 10·4-inch, barbette.	
Levers, iron, adjusting, hydraulic buffers, with key and taper pin		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Links, iron, connecting blocks, wood, supporting, girders		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Loops, iron	with nuts, front ...	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	3
	with nuts, rear ...	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4
	with nuts, rear, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
	with nuts, rear, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
	strap, bracket, step	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
	strap, bracket, step, with bolts, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
	strap, bracket, step, with bolts, rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
Pans, drip, hydraulic buffer	No. 1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
	„ 2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
	„ 11	...	...	2	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	1	1	1	1	...	12
Pins, steel,	bracket, axle, truck, front, with collar and taper pin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
	securing, screw, supporting, with split keys	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
Plates, iron	block, supporting, screw, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
	block, supporting, screw, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
	packing, bracket, sheave block	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
	staple, sponge tank, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
	staple, sponge tank, rear ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
	stud, link, connecting blocks, with collar and split key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
	supporting, bracket, pointer, with wood block and screws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
	supporting, pivot plates, with bolts and nuts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
	supporting, pivot plates, (angle) with bolts and nuts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
	metal, with screws, arrow ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
	metal, with screws, inscription...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
	steel, guide, bracket supporting, springs, left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
	steel, guide, bracket supporting, springs, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
	steel, spindles, spring, firing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
	steel, bearing, racer, box, transom, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
Platforms, wood, rear, moveable		...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	1	1	1	1	...	30

Where articles are interchangeable with others on the same line

‡ Special for Mark III.

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7-ft. parapet, C., R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25-tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons, Marks II. and III.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								C	D	C	A	C		A		C		D	A	C		D	A	C	D	9-in.	7-in.				
											Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.									
1	...	...	...	2	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...
4	2	2	...	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...
5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	4	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	2‡	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	1	1	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	§1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	1	1	...	1	1	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

§ Special pattern for each mark of slide.

Slides, L, R.M.L.—Component

Components.	Slides, L. Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft. recoil, Marks II. and III.	Small port. 10-in.	Casemate, R.M.L. To work within length. 11 or 12-in., 25 tons.	To work within length. 10-in. Mark I.	To work within length. 10-in. Mark II.	To work within length. 10-in. Special.	To work within length. 9-in.	12·5-in., 38 tons. 7 ft. recoil.	12·5-in., 38 tons. 6 ft. recoil. Marks II. and III.	12·5-in., 38 tons. 6 ft. recoil. Mark III., special.	11 or 12-in., 25 tons. Side.	11 or 12-in., 25 tons. Rear.	10-in. Side.	10-in. Rear.	10-in. Mark II.	9 in. Side.	9 in. Rear.	7-in.	Single plate. 11 or 12-in., 25 tons, to work within length.	Single plate. 9-in.	Single plate. 7-in.	R.M.L. 10·4-in., barbette.	
Planks wood, centre, complete ... set	1	1	...	1	1	...	...	1	1	1	1	1	1	1	1	...	1	1	1	1	1	1	...	1
Planks wood, centre left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Planks wood, centre right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Plugs, filling, hole, hydraulic buffer No. 20 ...	...	...	2	1	1	...	...	1	...	...	...	1	1	1	1	...	1	1	1	1	1	1	...	4
" 21 ...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
" 46 ...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	—	6
Pointers, steel, arc, traversing	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
with metal bracket and bolts No. 1	...	...	...	...	...	1	1	...	1†	1†	1	...	...	...	...	1	...	...	1	...	...	...	—	8
No. 5	...	...	...	1	1	...	...	1	...	...	...	1	1	1	...	...	1	1	1	1	...	...	—	9
Posts, hand	...	...	1	2	2	1	1	2	1	1	1	2	2	2	2	1	2	2	2	2	2	2	...	10
Rails, iron, hand, steps, sighting, with stanchions long left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
long right...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	12
short ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Screws, steel, supporting girders left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	14
right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	15
Shackles, iron, block, snatch, with nut, pin, and split key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	16
Slide, L, body, without fittings	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17
Sockets, lever, No. 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	18
Spindles iron, buffer, with keys front ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	6	6	6	...	...	...	...	...	...	...	...	...	...	...	...	20
	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
	...	...	5	5	5	...	...	...	...	...	...	5	5	5	5	...	...	...	...	5	...	...	...	22
	...	...	...	...	...	5	5	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	23
	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	4	4	4	...	4	4	...	24
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
front or rear ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
rear ...	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	29
	...	...	2	2	2	...	...	...	...	...	...	2	2	2	2	...	...	...	...	2	...	...	...	30
	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	31
	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	2	...	2	2	...	32
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
steel, spring, firing, with collar and nuts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
bollard, with bolt, collar, and nut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
Springs, disc, spindle buffer No. 2 with radius	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	38
No. 2 without "	45	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22	39
" 3	52	52	56	56	56	56	56	...	64	64	64	56	56	56	56	56	...	...	...	56	...	...	...	40
" 6	...	...	...	...	...	...	...	42	...	...	...	...	...	...	...	...	42	42	42	...	42	42	...	41
" 24 ... pairs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
Stages, loading	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43
Staples, iron, tank, sponge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44

Where articles are interchangeable with others on the same line
* 2 for 10-in., small port.

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7-ft. parapet, C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6¼ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.				10-in.				9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C			A	C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	1	1	1	...	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
4	1	1	...	...	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	1	1*
5	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
6	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	1	1	...	1	1	1	1	1	1	1	...	1	1	1	1	1	1	...	1	1	1	1	...	1	...	1	...	...	...	...	...
9	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	2	1	2	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1	2	2	2	1	2	...	...	...	...
20	...	...	...	...	...	...	...	*6*	*6*	*6*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
22	5	5	...	...	...	...	...	...	...	...	*5*	*5*	*5*	*5*	*5*	*5*	*5*	*5*	...	...	...	...	...	...	...	...	...	...	...	3	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...
24	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	*4*	...	...	2	...
25	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
26	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
27	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	2	...
29	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
30	2	2	...	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	1	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
32	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	...	...	1	...
33	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
35	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
39	...	...	...	...	...	...	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
40	56	56	...	48	...	...	52	64	64	64	56	56	56	56	56	56	56	56	...	...	...	...	...	...	...	...	...	...	...	4	...
41	...	...	...	...	42	42	...	...	...	...	...	...	...	...	...	...	...	...	42	42	42	42	42	42	42	42	42	28	...	4	...
42	...	...	...	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
43	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

† If for use on turntables, 1 left and 1 right of each.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
				Casemate, R.M.L.																				
	Small port.			To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.			Single plate.				
	12·5-in., 38 tons.				10-in.					6-ft. recoil.														
	7 ft. recoil.	6 ft. recoil, Marks II. and III.	10-in.	11 or 12-in., 25 tons.	Mark I.	Mark II.	Special.	9-in.	7 ft. recoil.	Marks II. and III.	Mark III., special.	Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.	7-in.	11 or 12-in., 25 tons, to work within length.	9-in.	7-in.	R.M.L. 10·4-in., barbette.	
Stays, iron, bracket, traversing, rear, with screws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Stays, iron, with bolts, supporting steps sighting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Stays, iron, with bolts, ladder, rear...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Stays, iron, with bolts, ladder, step sighting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	4
Steps, complete, iron, rear ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Steps, complete, iron, side, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Steps, complete, iron, side, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Steps, complete, iron, side, stirrup	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
Steps, complete, wood, rear, ...	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	9
Steps, complete, wood, rear, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
Steps, complete, wood, rear, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
Steps, complete, wood, side, left	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Steps, complete, wood, side, right	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Steps, complete, wood, side, additional..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
Steps, complete, wood, sighting, ...	...	...	1	2	2	1	1	2	3	3	3	2	2	2	1	1	2	2	1	2	2	1	1	15
Steps, complete, wood, sighting, upper	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
Steps, complete, wood, sighting, lower	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
Stops, iron, sponge tank	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
Straps, leather, 26 in. × 1 in...	1	1	...	1	...	...	...	...	1	1	1	1	1	...	...	...	...	...	...	1	...	...	...	19
Tanks, iron, sponge ...	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	1	1	1	1	...	20
Trucks, steel, plain front, left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
Trucks, steel, plain front, right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
Trucks, steel, plain, front	2	2	2	2	2	2	2	...	2	2	2	2	2	2	2	2	...	...	...	2	...	...	...	23
Trucks, steel, plain, rear	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	24
Trucks, steel, with bevel wheel ..., front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Trucks, steel, with bevel wheel ..., rear	...	...	2	2	2	2	2	...	...	...	...	2	2	2	2	2	...	...	...	2	...	...	...	26
Trucks, steel, with spur wheel, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
Trucks, iron, plain, front	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	2	...	2	2	...	28
Trucks, iron, plain, rear	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	2	...	29
Trucks, iron, with bevel wheel, front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
Trucks, iron, with bevel wheel . rear	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	31
Wheels, steel, bevel, axle front	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
APPARATUS, WASHING-OUT.																								
Blocks, chain tackle (Weston) ... ... pair	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	33
Brackets, metal, guide rods with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	34
Connections, metal, cylinder	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	35
Cylinders, with ram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	37
Glands, metal, cylinder, inner...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	37
Glands, metal, cylinder, outer...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	38
Packings, leather, swivel, pipes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	39
Stops, buffer, consisting of 3 elastic pads with parting plates	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	40

Where articles are interchangeable with others on the same line

+ Special for Mark IV.

* Special for 3 slides at Fort Westmorland.

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6-ft. parapet.	Detached group of Sub-District.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in. Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
7	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	2	2	...	...	2	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	1	1	1	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	...	1	1	1	1	1	...	...	1	...	...	...
13	1	1	1	1	1	1	...	1	1	1	1	1	1	1	1	1	1	1	1	...	1	1	1	1	1	...	...	1	...	...	...
14	...	...	...	...	...	...	...	1*	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	..	...	1	...	...	...	...	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	1	2	...	...	...
16	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	1	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	1	...	...	...	...	...	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	1	1	1	1	1	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...
21	...	...	...	...	...	1†	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	1†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	1	1	1	...	...	...	2	2	2	2	2	1	1	2	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	1	1	1	1	...	1†	2	2	2	2	...	1	1	...	...	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...
25	1	1	1	...	...	...	...	...	...	...	...	1	1	...	...	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...
26	1	1	1	1	...	1†	...	...	...	...	2	1	1	2	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	1	2‡§	...	...	...	...	...	...	...	...	...	...	...	...	2	1	1	...	2	2	2	2	2	2	...	...	...
29	...	...	...	...	1	1‡	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	2	2	2	2	2	2	...	...	...
30	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	...	...	...	...	...	...	...	...	...
31	...	...	...	...	1	1‡	...	...	...	...	...	...	...	...	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

§ 1 left and 1 right. ‡ Special for Mark III.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R.M.L.																			R.M.L. 10·4-in., barbette.	
	12·5-in., 38 tons.		10-in.	To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.		7-in.	Single plate.				
	7 ft. recoil.	6 ft. recoil, Marks II. and III.		11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft. recoil.		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
					Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
GEAR, LIFTING, FRONT OF SLIDE.																								
Axles, steel with nuts, levers, lifting, inside	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
outside	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Blocks, metal, connecting, levers, lifting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Brackets, with bolts and screws, cast-iron, screw, lifting, bottom	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
top	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Capstan-head, iron, screw, lifting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Levers, steel, lifting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Screws, steel, lifting, with nut, and collar with set screw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
Springs, steel, disc, screw, lifting, No. 23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
Tubes, copper, lubricating axles, truck, front, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
GEAR, LOADING.																								
Blocks, derrick, loading, top, with sheaves and shackle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	11
bottom, with hook	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	12
Brackets, iron, with bolts or screws, connecting-tube, loading, with bearings, spindles, and screws, adjusting, left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	13
right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	14
supporting, derrick, top	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	15
bottom	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	16
tube, loading	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	17
sheave, rammer, rope	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	18
rollers, guide, top	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	19
bottom	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	20
chain winch, lifting, with sheave, pin, collar, and key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	21
Cradles, cartridge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	22
projectile	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	23
Derricks, loading	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	24
Handles, winch, No. 30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	25
Pinions, spur, with spindle, 1st motion, 15 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	26
Rammers, wood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	27
Ropes, steel wire, long	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	28
short	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	29
Sheaves, rope, with pin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	30

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7-ft. parapet, C., R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in. E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
10	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

Slides, L, R.M.L.—Component

Components.	Slides, L.																						
	Casemates, R.M.L																						
	Small port.			To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9 in.			Single plate.			
	12·5-in., 38 tons.		10-in.	11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft. recoil.		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.	7-in.	11 or 12-in., 25 tons, to work within length.	9-in.	7-in.	R.M.L. 10·4 in., barbette	
	7 ft. recoil.	6 ft. recoil, Marks II. and III.			Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Spindles, rollers, guide top	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1
bottom	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	2
Stops, buffer rammer, consisting of 1 bracket, 4 elastic pads, parting plates, and spindle, with nut and split key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3
Supports, tube, loading wood, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	4
Tubes, rammer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	5
Wheels, spur, 103 teeth, with spindles, drum, and brake	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	6
GEAR, STOP, COMPRESSOR.																								
Counterweights, cast-iron, with screw	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	7
Levers, iron, screw, compressor	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	8
Nuts, metal, screw adjusting	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	9
compressor	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	10
Pads, elastic, parting, compressor plates	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	11
Pawls, iron, compressor lever	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	12
Pins, iron, compressor plates, with split keys	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	13
Plates, iron, compressor	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	14
Screws, iron adjusting	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	15
compressor, with collar and nut	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	16
GEAR, PREVENTOR.																								
Bars, iron, preventor	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	17
Pins, iron, compressor bar, with split keys	2	2	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	18
Plates, iron, parting	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	19
Rings, felt, buffer, 4$\frac{7}{8}$-in. × $\frac{3}{8}$-in., 1$\frac{9}{16}$-in. hole	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	20
Spindles, iron, buffer, with nuts and split keys	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	21
Trippers, iron	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	22
GEAR, RUNNING IN AND OUT.																								
Bands, steel, brake	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
Blocks, metal, side tackle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	24
Clutch, metal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Cover, spur wheel and pinion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	26
Handles, winch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6¼ tons, 6 ft. parapet.	Detached group of Sub Districts. per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons. Marks II. and III.		12-in., 35 tons.	11 or 12-in., 25 tons.				10-in.				9-in.				7-in.			Single plate.					
											A	C			A	C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1

for which a supply of spare is laid down, they are shown in *italics*.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R.M.L.																			R.M.L. 10·4-in., barbette.	
	12·5-in., 38 tons.			To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.			Single plate.				
					10-in.					6 ft. recoil.														
	7 ft. recoil.	6 ft. recoil, Marks II. and III.	10-in.	11 or 12-in., 25 tons	Mark I.	Mark II.	Special.	9-in.	7 ft. recoil.	Marks II. and III.	Mark III., special.	Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.	7-in.	11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
Levers, iron, adjusting brake bands	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Levers, iron, brake	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Levers, iron, clutch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Links, chain, iron, for repairs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Pinions, metal, clutch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Pinions, metal, shaft, 1st motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	6
Pins, steel, connecting brake band, with collar and split key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Pins, iron, with chain lever clutch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
Pins, chain, iron, for repairs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
Pins, screw, connecting chain, iron	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
Shafts, iron, 1st motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	11
Shafts, iron, 2nd ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	12
Shafts, iron, 3rd ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Shafts, iron, brake	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
Socket, iron, adjusting, brake bands	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
Wheels, spur, metal, 2nd motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	16
GEAR, TRAVERSING AND RUNNING-BACK.																								
Axles, iron, with split keys, roller, guide, chain, endless	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
Axles, iron, with split keys, wheel, chain, endless	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	18
57 Malta 774 **Balls,** anti-friction*	142	†	...	...	...	...	...	...	134	134	134	...	...	...	...	...	...	...	...	...	...	...	...	19
Bands, clutch, metal	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	20
Bands, clutch, iron	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	21
Bearings, metal, nut, screw, adjusting	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	22
Blocks, running-back, iron, with metal sheaves, double	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	24
	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	25
	...	...	*2*	...	*2*	...	...	*2*	...	...	...	...	...	*2*	*2*	...	*2*	*2*	...	...	...	...	...	26
Blocks, running-back, iron, with metal sheaves, treble	...	...	...	*2*	...	...	...	...	...	...	...	*2*	*2*	...	...	...	...	...	...	*2*	...	...	...	27
Bollards, cast-iron	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	28
Bushes, metal, fork, chain	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	29
Chains, iron, endless	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	30
Clutches, cast-iron	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
Clutches, metal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32

Where articles are interchangeable with others on the same line

and Spare parts for—*continued*.

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* Issued with the "Rings, ball bearings."

† 162 for Mark II., 142 for Mark III.

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C., R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7 ft., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts—per 10 guns, or less No. of each nature.	Sub District.—per 10 guns, or less No. of each nature	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
17	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	‡	154	154	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25§
20	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
26	...	2	...	...	2	2	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	*2*	...	...	...	...	...	...	1	...	...
27	2	...	...	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
28	1	1	1	1	1	1	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
32	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

‡ 162 for converted Mark II., 142 for converted Mark III. § Per District in A.O. charge.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R M.L.																				
	12·5-in., 38 tons.			To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.			Single plate.				
					10-in.					6 ft. recoil.														
	7 ft. recoil.	6 ft. recoil, Marks II. and III.	10-in.	11 or 12-in., 25 tons.	Mark I.	Mark II.	Special.	9-in.	7 ft. recoil.	Marks II. and III.	Mark III., special.	Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.	7-in	11 or 12-in., 25 tons, to work within length.	9-in.	7-in.	R.M.L. 10·4-in., barbette.	
Collars, iron, shaft, 2nd motion	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
iron, with screws, shaft, bollard	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	2
clutch, pinion	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	3
cross	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	4
longitudinal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
sprocket wheel	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	6
traversing	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	7
winch handle	...	...	2	2	2	2	2	2	...	...	...	2	1	2	...	2	2	1	...	2	...	...	...	8
2nd motion	...	...	...	1	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	9
3rd ,,	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
iron, thrust, shaft clutch, pinion, with taper pin	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	11
steel, shaft, clutch, pinion	7	7	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	12
Covers, iron, complete	1	1	1	1	1	2	1	2	...	...	...	1	...	1	...	1	...	...	...	1	...	...	...	13
Discs, metal, pointer	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	14
Forks, chain, iron, with nuts	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
	...	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	16
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
Guards, metal, wheel, spur and pinion... left	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	18
right	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	19
Handles, winch No. 4	*2*	*2*	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	20
,, 5	...	...	*2*	*2*	*2*	...	*2*	*2*	...	...	...	*2*	...	*2*	...	*2*	...	...	...	*2*	...	...	...	21
,, 6	...	...	...	...	...	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
,, 7	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	*1*	...	...	*1*	...	...	...	...	...	23
,, 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	...	...	...	...	...	...	24
,, 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
,, 31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	26
Keys, steel, driving, driving bollard	...	...	...	*2*	...	...	...	...	...	...	...	*2*	*2*	...	...	...	...	...	...	*2*	...	...	...	27
	...	...	*2*	...	*2*	*2*	*2*	*2*	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	...	...	...	...	...	28
shaft	6	6	3	6	10	5	5	10	10	10	10	3	2	3	2	5	7	6	...	6	...	...	...	29
bollard...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
shaft, traversing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
spindle, winch handle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
Levers, iron, clutch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	1	...	...	...	33
Links, chain, iron (for repair)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
Nuts, metal, screw, adjusting, lever clutch	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...		35
Gudgeons, steel connecting, stage, loading, with screws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
Pinions, M.C.I. or steel, bevel, double, 38 and 32 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
30 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
18 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
15 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41
spindle, gudgeon, 15 teeth...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
2nd motion 19 teeth	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43
18 ,,	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	44

Where articles are interchangeable with others on tho same line,

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7ft. parapet, C., R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., R.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	1	1	1	1	1	1	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	1	...	...	...	...	...	...	...	...	...
5	...	...	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	3	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	1	1	...	...	1	...	...	2	2	2	1	2	2	2	...	2	2	2	1	2	2	2	...	...	...	...	...	...	...	...	...
9	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	7	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
16	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
17	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	2	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
21	1	1	1	1	1	1	...	...	...	...	...	...	*2*	*2*	...	*2*	*2*	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	1
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
23	...	...	...	...	...	...	...	...	...	...	*1*	...	...	...	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
24	...	...	...	...	...	...	...	...	...	...	...	*2*	...	...	...	...	...	*2*	...	...	...	...	...	...	...	...	...	...	...	...	1
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
27	2	...	...	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	*2*	...	...	...	*2*	...	...	...	...	...	...	2	...	...
28	...	2	2	...	2	2	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	...	...	*2*	*2*	...	...	...	...	...	...	...	2	...	...
29	7	7	6	...	7	7	...	14	14	14	6	7	6	7	5	7	6	3	5	8	6	5	...	...	...	...	...	...	2	...	...
30	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
31	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 for 38 & 35 tons	...
35	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
36	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
39	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	1	...
40	1	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
41	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	1	...
42	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R.M.L.																			R.M.L. 10·4-in., barbette.	
	12·5-in., 38 tons.		10-in.	To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.		7-in.	Single plate.				
	7 ft. recoil.	6 ft. recoil, Marks II. and III.		11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft. recoil.		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
					Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Pinions, M.C.I. or steel, bevel, shaft, cross, 17 ,, left	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
right	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2
16 ,,	...	...	...	2	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	2	...	...	...	3
15 ,,	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
	...	...	2	...	2	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	5
	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	6
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
14 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
longitudinal, front, 18 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
16 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
15 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
rear, 18 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
15 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
13 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
traversing, 18 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
winch handle, 19 teeth	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	20
15 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	22
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	24
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
12 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
mitre, shaft, cross, 15 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
spur, 2nd motion, 21 teeth	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
13 ,,	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
12 ,,	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	31
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
3rd motion, 20 ,,	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
18 ,,	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
13 ,,	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	35
shaft, longitudinal, front, 15 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
13 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
12 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
winch handle, 15 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	40
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41
14 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
13 ,,	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	43
	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	44
	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	45

Where articles are interchangeable with others on the same line,

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	..	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
12	1	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	1	...
14	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
16	1	1	1	1	...	...	...	...	...	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
21	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	...	1	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	1	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	...	...	...	...	...	...	1	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
32	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
38	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
41	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...

for which a supply of spare is laid down, they are shown in *italics*.

Slides, L, R.M.L.—Component

Components.				Sides, L.																							
				Small port.			Casemate, R.M.L.																				
				12·5-in., 38 tons.		10-in.	To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.		7-in.	Single plate.			R.M.L. 10·4-in., barbette.	
				7 ft. recoil.	6 ft. recoil, Marks II. and III.		11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft. recoil.		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
								Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Pinions	M.C.I. or steel, spur	shaft, winch handle	12 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
				...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
				...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
			11 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
		spindle, 2nd motion winch handle	12 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
			14 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
			11 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
			12 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
	metal, bevel	clutch ...	21 ,,	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
			18 ,,	...	...	1	...	1	...	...	1	...	...	...	...	...	1	1	...	1	1	...	...	...	...	...	13
			17 ,,	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	14
			16 ,,	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	15
			15 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
		clutch, friction	22 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
			16 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
			14 ,,	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	19
		2nd motion, 15 teeth		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
		shaft, winch-handle, 15 teeth ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
		shaft, traversing	23 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
			14 ,,	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	23
			13 ,,	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
		and spur	19 & 10 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	25
			15 & 14 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
		spindle, winch-handle, 15 teeth		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
	spur	clutch	12 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
			14 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
			26 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
			friction, 12 teeth	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	31
		shaft, winch-handle	10 teeth ...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	32
			... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	33
		spindle, 2nd motion, 10 teeth ...		2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
		spindle, 3rd motion, 10 teeth ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
		shaft, 2nd motion		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	36
Pins, iron, spur, with spindles		2nd motion	11 teeth...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
			10 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
		10 teeth		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
		winch-handle, 10 teeth		2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
4	...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
8	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...

for which a supply of spare is laid down, they are shown in *italics.*

Slides, L, R.M.L.--Component

Components.		Slides, L.																							
		Smallport.			Casemate, R.M.L.																			R.M.L. 10·4-in., barbette.	
		12·5-in., 38 tons.		10-in.	To work within length.					12·5-in., 38 tons.			11 or 12-in., 25 tons.		10-in.			9-in.		7-in.	Single plate.				
		7 ft. recoil.	6 ft. recoil, Marks II. and III.		11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft. recoil.		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
						Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Pins, iron	chain (for repairs)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
	clutch lever, connecting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
	clutch lever, joint, with collar and split key	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	3
	clutch lever, joint, with split key	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	4
	clutch lever, securing, with chain	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	5
	screw, connecting, chain (for repairs)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Plates, friction	clutch* metal	14	14	...	...	...	...	...	...	14	14	14	...	...	...	...	...	...	...	...	...	...	...	...	7
	clutch* steel	14	14	...	...	...	...	...	...	14	14	14	...	...	...	...	...	...	...	...	...	...	...	...	8
	metal large thick	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
	metal large thin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
	metal small thick	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
	metal small thin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
	steel large	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
	steel small	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
Pointers, steel indicator		1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	15
57 Malta 774 **Rings**	ball bearings No. 1	...	2†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
	ball bearings ,, 2	2	2‡	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	17
	ball bearings ,, 3	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
	ball bearings ,, 4	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	19
	fork, chain copper	6	6	...	...	...	...	...	...	6	6	6	...	...	...	...	...	...	...	...	...	...	...	...	20
	fork, chain india-rubber	8	8	...	...	...	...	...	...	8	8	8	...	...	...	...	...	...	...	...	...	...	...	...	21
Rods, iron, connecting, clutch lever		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
Rollers, iron, guide, chain, endless		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
Screws	iron, adjusting, clutch lever, with collars and nut	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	24
	steel, joint, clutch lever, with taper pin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Shafts, iron	2nd motion	...	...	...	1	1	1	...	1	2	2	2	...	...	...	...	...	...	...	...	1	...	...	1	26
	3rd ,,	...	...	...	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	27
	bollard	...	...	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	...	1	...	...	...	28
	clutch pinion	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	29
	cross	...	...	2	2	2	2*a*	2	2	...	...	...	2	2	2	2	2*a*	2	2	...	2	...	...	...	30
	longitudinal	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
	traversing	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	32
	wheel, sprocket	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	33
	winch handle	...	...	1	2	2	1	1	2	2	2	2	1	1	1	1	1	1	1	...	2	...	..	1	34
Shafts, steel	traversing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
	wheel, sprocket	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
Spindles, iron	2nd motion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
	2nd motion, with collar and keep screw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	38
	2nd motion, with collar nut and key	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39
	2nd motion, with collar screw and nut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40

Where articles are interchangeable with others on the same line

* 12 plates only for Mark II. casemate, † For Mark II only. ‡ For Mark III only.

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7-ft. parapet, C, R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20 for 38 & 35 tons.	...
2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
3	1	1	...	1	1	1	...	...	...	2	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...		...
4	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
5	1	1	1	1	1	1	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 for 38 & 35 tons.	...
7	...	...	...	...	...	...	...	13	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
8	...	...	...	...	...	...	...	13	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
9	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
10	...	...	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
11	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	2§	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	2‖	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	6	6	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	8	8	*8*	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...
22	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	1	1	...	...	1	...	...	2	2	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	1	1	1	1	1	...	...	...	...	1	1	1	1	1	1	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	1	...	...	...	...	...	...	...	2	...	...	2	2	...	...	1	2	...	...	1	...	...	...	...	...	...	...	...	...
31	1	1	1	1	1	1	...	...	...	...	...	2*a*	1	...	...	1	1	1	1	2*a*	1	1	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	1	1	...	...	1	...	...	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

§ For converted Mark II only. ‖ For converted Mark III only. *a* 1 long and 1 short.

Components.	Slides, L. Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft. recoil, Marks II. and III.	Small port. 10-in.	Casemate, R.M.L. To work within length. 11 or 12 in., 25 tons.	To work within length. 10-in. Mark I.	To work within length. 10-in. Mark II.	To work within length. 10-in. Special.	To work within length. 9-in.	12·5-in., 38 tons. 7 ft. recoil.	12·5-in., 38 tons. 6 ft. recoil. Marks II. and III	12·5-in., 38 tons. 6 ft. recoil. Mark III., special.	11 or 12-in., 25 tons. Side.	11 or 12-in., 25 tons. Rear.	10-in. Side.	10-in. Rear.	10-in. Mark II.	9-in. Side.	9-in. Rear.	7-in.	Single plate. 11 or 12-in., 25 tons, to work within length.	Single plate. 9-in.	Single plate. 7 in.	R.M.L. 10·4-in., barbette.	
Spindles, iron, 2nd motion, with key and collar, with set screw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
3rd motion, with collars, nut, and key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
gudgeon, with collars, and split key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
gudgeon, with collars, nut and pins	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
gudgeon, with collar, complete, 2nd motion	...	...	1	...	1	...	1	1	...	...	...	1	...	1	...	1	1	...	...	...	...	...	...	5
pinion bevel double	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
wheel, spur	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	7
winch handle, with collar and set screw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
steel, 2nd motion ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
with nut, collar, and set screw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
winch handle ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
with collar and set screw	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Stays, iron, guards ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
Studs, steel, friction ... bracket, thrust	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	14
shaft, clutch pinion ...	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	15
Tubes, metal, lubricating	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
Wheels, M, cast-iron or steel, bevel and spur, 2nd motion, 48 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
35 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
32 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
27 ,, ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
19 ,, ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
2nd motion, 35 and 12 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
27 and 13 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	24
27 and 12 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
27 and 10 ,, ...	...	...	*1*	...	...	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	...	...	26
19 and 13 ,, ...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	27
shaft, 3rd motion, 30 teeth ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	28
27 ,, ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
cross, 38 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
32 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
30 ,, left ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
30 ,, right ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33
27 ,, left ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	34
27 ,, right ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	35
24 ,, ...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
22 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37
18 ,, ...	...	...	2	...	2	...	...	2	...	...	...	...	...	2	2	...	2	2	...	...	...	...	...	38
17 ,, ...	...	...	...	2	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	2	...	...	...	39
longitudinal, 35 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
19 ,, ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet, C., R.M.L.						12·5-in., converted small port, Mark I.	Dwart, R.M.L.																				7-in, 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5 in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	1	1	...	...	1	...	...	...	...	...	...	1	1	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
18	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	...	*1*	*1*	...	...	...	*1*	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

Slides, L, R.M.L.—Component

Components.	Slides, L. Casemate, R.M.L. Small port. 12·5-in., 38 tons. 7 ft. recoil.	Small port. 12·5-in., 38 tons. 6 ft., recoil, Marks II. and III.	Small port. 10-in.	To work within length. 11 or 12-in., 25 tons.	To work within length. 10-in. Mark I.	To work within length. 10-in. Mark II.	To work within length. 10-in. Special.	To work within length. 9-in.	12·5 in., 38 tons. 7 ft. recoil.	12·5 in., 38 tons. 6 ft. recoil. Marks II. and III.	12·5 in., 38 tons. 6 ft. recoil. Mark III., special.	11 or 12 in., 25 tons. Side.	11 or 12 in., 25 tons. Rear.	10-in. Side.	10-in. Rear.	10-in. Mark II.	9-in. Side.	9-in. Rear.	7-in.	Single plate. 11 or 12 in., 25 tons, to work within length.	Single plate. 9-in.	Single plate. 7-in.	R.M.L. 10·4-in., barbette.	
Wheels, M. cast-iron or steel, bevel, shaft, traversing, 28 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
27 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
23 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
18 ,,	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	4
spindle, pinion, 27 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
19 ,,	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
spindle, 2nd motion, 35 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
spur, 2nd motion, 70 teeth	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
62 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
60 ,, ...	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	10
46 and 14 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
46 and 13 ,, ...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	12
46 and 12 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	13
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
44 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
38 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	16
36 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	17
28 ,, ...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
25 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
23 ,, ...	...	...	...	...	1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	20
20 and 15 teeth ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
3rd motion, 79 and 12 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
3rd motion, 70 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
clutch, 23 teeth ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
19 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
shaft, bollard, 65 teeth	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	26
	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	27
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
shaft, bollard, 62 teeth	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	29
	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	33
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
46 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	37
19 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
clutch pinion, 36 ,, ...	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	..	...	...	...	39
3rd motion, 29 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	40
spur, shaft, longitudinal, 32 teeth...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	41
27 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
23 ,, ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43
21 ,, ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44
20 ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	45
wheel, sprocket, 30 teeth	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	46
25 ,,	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides L.																												Proportion of spare for each		
	7 ft. parapet, C., R.M.L.						12·5-in., converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6¼ tons, 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12 in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Mark III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
15	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	1	...	1	1	1	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
29	...	...	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	...	...	...	...	1	...
30	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
31	...	1	...	...	1	...	...	...	...	...	...	...	...	*1*	...	...	*1*	...	...	*1*	*1*	...	...	...	...	...	...	...	...	1	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
35	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
36	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
38	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
39	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43	...	1	...	1	1	1	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
45	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
47	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R.M.L.																			R.M.L. 10·4-in., barbette.	
	12·5-in. 38 tons.		10-inch.	To work within length.					12·5-in., 38 tons.			11 or 12-in. 25 tons.		10-in.			9-in.		7-in.	Single plate.				
	7 ft. recoil.	6 ft. recoil, Marks II. and III.		11 or 12-in., 25 tons.	10-in.			9-in.	7 ft. recoil.	6 ft. recoil		Side.	Rear.	Side.	Rear.	Mark II.	Side.	Rear.		11 or 12-in., 25 tons, to work within length.	9-in.	7-in.		
					Mark I.	Mark II.	Special.			Marks II. and III.	Mark III., special.													
Wheels, M. cast-iron or steel spur, spindle, 2nd motion, 62 teeth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
46 ,,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
gudgeon, 23 ,,	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
21 ,,	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
iron, chain, endless ...	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	5
sprocket ...	2	2	...	...	...	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	6
metal, hand, screw adjusting, clutch lever ...	1	1	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	7
STAGES, LOADING.																								
Axles, steel, roller, racer, with collar and taper pin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
truck, with nut and split key	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9
Bands, iron, pivot ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10
metal, pivot ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
Boards, chequered, with bolts ... sets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Brackets, with bolts or screws, iron, rod, releasing ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13
M.C.I., or steel, brake, left...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
roller, racer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
Frames, iron, angle, supporting front, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
Flanges, iron, truck ... pairs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
Girders, iron, with bolts or screws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
connecting pivot band	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
stage, loading ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
Ladders, iron, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
Pedestals, M.C.S., derrick, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23
Plates, iron, chequered ... sets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
connecting frames, supporting	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
Rails, hand, iron, with stanchions	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26
Rollers, metal, racer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27
Stays, iron, diagonal, pairs ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28
with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
ladder, with bolts ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30
steel, diagonal ... pairs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
Steps, iron, with bolts	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32
Transoms, steel, connecting, rear, with bolts and bearing plates for gudgeon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33

Where articles are interchangeable with others on the same line

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each.		
	7 ft. parapet, C., R.M.L.						12·5-in. converted small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons, 6 ft. parapet.	Detached group of Sub-Districts—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in., 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	2	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	2	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*

Slides, L, R.M.L.—Component

Components.	Slides, L.																							
	Small port.			Casemate, R.M.L.																				
	12·5-in., 38 tons.			To work within length.					12·5-in., 38 tons.			11 or 12-in. 25 tons.		10-in.			9-in.			Single plate.				
					10-in.					6-ft. recoil.														
	7 ft. recoil.	6 ft. recoil, Marks II. and III.	10-in.	11 or 12-in., 25 tons.	Mark I.	Mark II.	Special.	9-in.	7-ft. recoil.	Marks II. and III.	Mark III., special.	Side	Rear.	Side.	Rear.	Mark II.	Side.	Rear.	7-in.	11 or 12-in., 25 tons, to work within length.	9-in.	7-in.	R.M.L. 10·4-in. barbette.	
Trucks, M.C.S. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gear, loading—																								
Bands, steel, friction, brake drum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Blocks, sheave, single, derrick	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Derricks, with sheaves and pins	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Drums, brake	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Handles, winch { No. 1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
,, 2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Levers, iron, brake, with counterweight, bolt, studs, collar and key	...	...	...	...	...	...	...	...	...	...	...			...	...	...	...	...	...	...	...	...	...	
Pawls, steel, brake drum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rods, iron, releasing, with pin, collar and key	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Ropes, steel wire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Shafts, steel, brake drum, with collar and screws	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Spindles, steel, lever, brake, with collar, nut and pin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Springs, steel, pawl, brake drum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Wheels, metal, ratchet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Windlass, iron	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1

Where articles are interchangeable with others on the same line

* Per Stage.

and Spare parts for—*continued.*

	Slides, L.																												Proportion of spare for each		
	7 ft. parapet. C., R.M.L.						12·5-in. converted, small port, Mark I.	Dwarf, R.M.L.																				7-in., 6½ tons; 6 ft. parapet.	Detached group of Sub-Districts.—per 10 guns, or less No. of each nature.	Sub-District.—per 10 guns, or less No. of each nature.	Fort or Battery.—per 10 guns, or less No. of each nature.
	11 or 12-in., 25 tons.	10-in., Mark I.	10-in., E.O.C., Mark I.	10-in., Mark II.	9-in., Mark I.	9-in., Marks III. and IV.		12·5-in., 38 tons.		12-in., 35 tons.	11 or 12-in. 25 tons.			10-in.					9-in.				7-in.			Single plate.					
								Marks II. and III.			A	C		A		C		D	A	C		D									
								C	D	C	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	Rear.	Central.	Side.	Side.	A	C	D	9-in.	7-in.				
1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1*
12	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
15	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics.*

BEDS AND CARRIAGES FOR MEDIUM ORDNANCE,

Components.	Beds.				Carriages.						
					Garrison,						
					Wood.						
		Howitzer R.M.L.			R.B.L.		R.M.L.		S.B.		
			Steel.								
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No. 18, converted naval, 7-in. 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in. 65 cwt. No. 24, 58 cwt., and S.B. 32-pr. 58 cwt. No. 25, 58 cwt.	68-pr., 112cwt., 8-in., 54cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Arcs, compressor gear, adjusting	...	1	1	1	...	...	...	...	...	...	1
Arcs, compressor gear, compressor... ...	...	1	1	1	...	...	...	...	...	...	2
Arms radial, iron, with retaining chain ... left ...	...	...	...	...	...	...	...	...	...	...	3
Arms radial, iron, with retaining chain ... ... right ...	...	...	...	...	...	...	...	...	...	...	4
	...	...	...	...	...	...	...	...	...	...	5
Axles, iron, roller, with split keys... ...	...	...	...	...	2*	2	2	2	2	2	6
	...	...	...	...	2†	...	...	...	...	...	7
Axles, steel, roller, with split key...	...	6	6	6	...	...	...	...	...	...	8
Axles, steel, roller, with nuts, front and rear ...	...	...	...	...	...	...	...	...	...	...	9
Axles, steel, roller, with nuts, intermediate ...	...	...	...	...	...	...	...	...	...	...	10
Axles, steel, roller, with nuts and pins, front ...	...	...	...	...	...	...	...	...	...	...	11
Axles, steel, roller, with nuts and pins, rear and intermediate	...	...	...	...	...	...	...	...	...	...	12
Axles, transporting bed, howitzer, R.M.L....	...	1	1	1	...	...	...	...	...	...	13
Bands, iron, securing, hydraulic buffer, front ...	...	...	...	...	...	...	...	...	...	...	14
Bands, iron, securing, hydraulic buffer ... ... rear ...	...	...	...	...	...	...	...	...	...	...	15
Bars, iron, connecting piston rod	...	...	...	...	...	...	...	...	...	...	16
Bars, iron, supporting compressor plates...	...	...	...	...	...	...	...	...	...	...	17
Bearings, metal, box, screw, elevating, with bolts	...	12	1	...	...	...	...	...	...	...	18
Bearings, metal, with screws, axles, roller... ...	...	12	12	12	...	...	...	...	...	...	19
Bearings, metal, axletree, transporting	...	2	2	2	...	...	...	...	...	...	20
Bearings, metal, compressor gear, adjusting shaft ...	...	...	...	...	...	...	...	...	...	...	21
Bearings, metal, compressor gear, compressor screw ...	...	1	1	1	...	...	...	...	...	...	22
Bearings, metal, compressor gear, adjusting screw ...	...	1	1	1	...	...	...	...	...	...	23
Bearings, metal, pinion spindle, elevating... ...	...	1	1	3	...	...	...	...	...	...	24
Bearings, metal, spindle, mitre wheel	...	...	...	...	...	...	...	...	...	...	25
Bearings, iron, with screws, axles, roller	...	...	...	...	...	...	...	...	...	...	26
Beds, body	1	1	1	1	...	...	...	...	...	..	27
Beds, iron	...	...	...	...	...	1	1	1	1	1	28
Beds, wood	...	...	...	...	1	...	...	...	...	...	29
Blocks, wood, buffer front, with bolts	...	...	...	...	...	...	...	...	...	...	30
Blocks, wood, swing	...	...	...	...	1	...	...	...	...	...	31
Blocks, wood, trunnion, transporting bed, howitzer, R.M.L.	...	1		1	...	...	...	...	...	...	32
Bolsters, wood, with wedge	1	...	...	...	...	...	...	...	...	...	33
Bolts, iron, connecting bed, with nuts and split keys	...	...	...	...	...	...	...	...	...	...	34
Bolts, steel, housing, with bracket ...	...	...	...	...	...	...	...	...	...	...	35
Boxes, iron, screw elevating	...	...	...	...	...	...	...	...	...	...	36
Brackets, transporting bed, howitzer, R.M.L., left	...	1	1	1	...	...	...	...	...	...	37
Brackets, transporting bed, howitzer, R.M.L. ... ... right	...	1	1	1	...	...	...	...	...	...	38

Where articles are interchangeable with others on the same line for

* Front. † Rear.

COMPONENT AND SPARE PARTS FOR.

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No 11, 3 ft. 6 in parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	.	..	...	...	...	...	...
2	1	1	...	...	...	...	1	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	1	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	...	...
5	...	...	...	...	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
15	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...
17	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
19	4	4	4	...	...	4	4	4	...	4	4	4	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	2	...	...	2	1	...	...	4	1	2	...	1	...	...	1	...	1	3	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
26	...	...	...	20	24	...	...	...	20	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
28	...	1	1	...	...	1	1	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...
29	...	...	...	..	...	...	...	1	...	...	...	...	...	...	1	...	1	1	...	...	...	...
30	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

which a supply of spare is laid down, they are shown in *italics*.

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
					Garrison,						
		Howitzer R.M.L.			Wood.						
			Steel.		R.B.L.		R.M.L.		S.B.		
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No. 18, converted naval, 7-in., 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in., 65 cwt. No. 24, 58 cwt., and S.B. 32-pr., 58 cwt. No. 25, 58 cwt.	68-pr., 112cwt., 8-in., 54cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Brackets, with bolts or screws iron comp. gear adjusting shaft	...	...	...	...	...	...	...	...	...	...	1
compressor screw	...	...	...	...	...	...	...	...	...	...	2
hydraulic buffer	...	...	...	...	...	...	...	...	...	...	3
stop, lever jamming	...	...	...	...	...	...	...	...	...	...	4
link, adjusting, chain, retaining left	...	...	...	...	...	...	...	...	...	...	5
right	...	...	...	...	...	...	...	...	...	...	6
metal bearing shaft, eccentric, double	...	...	...	...	...	...	...	...	...	...	7
clamp	...	...	...	...	...	...	...	...	...	...	8
shaft, elevating centre	...	...	...	...	...	...	...	...	...	...	9
front	...	...	...	...	...	...	...	...	...	...	10
rear	...	...	...	...	...	...	...	...	...	...	11
spindle, worm, elevating bottom	...	1	1	1	...	...	...	...	...	...	12
top	...	1	1	1	...	...	...	...	...	...	13
Buffers compressor lever, consisting of 1 elastic pad and plate, with bracket	...	...	...	...	...	...	...	...	...	...	14
hydraulic	...	...	...	...	...	...	...	...	...	...	15
	...	...	...	...	...	...	...	...	...	...	16
	...	...	...	...	...	...	...	...	...	...	17
	...	...	...	...	...	...	...	...	...	...	18
	...	...	...	...	...	...	...	...	...	...	19
Capsquares, iron	2	2	2	2	2	...	...	...	...	...	20
Carriages, body	...	...	...	...	1	1	1	1	1	1	21
Chains, iron drag, shoe	...	...	...	...	...	...	...	...	...	...	22
supporting hydraulic buffer	...	...	...	...	...	...	...	...	...	...	23
keep, with shakle, collar, pin and split key	...	...	...	...	...	...	...	...	...	...	24
Clips, transom, transporting bed, howitzer, R.M.L.	...	1	1	1	...	...	...	...	...	...	25
Coins, wood carriage, No. 5	...	...	...	...	...	1	1	1	1	1	26
elevating	1	...	...	...	...	...	...	...	...	...	27
hand No. 4	...	...	...	...	1	1	1	1	1	1	28
No. 7	...	...	...	...	...	...	...	...	...	...	29
housing	1	...	...	...	...	...	...	...	...	...	30
Compressors, iron side plates, with screws, bolts and nuts, 1 left and 1 right ... set	...	...	...	...	1	...	...	...	...	...	31
Cotters, steel, with split key, securing trunnion plates	...	...	...	...	...	...	...	...	...	...	32
Cranks, iron, rear roller, with split key left	...	...	...	...	1	...	...	...	...	...	33
right	...	...	...	...	1	...	...	...	...	...	34
Cylinders wood, supporting radial arm	...	...	...	...	...	...	...	...	...	...	35
with ram, hydro-pneumatic	...	...	...	...	...	...	...	...	...	...	36
Decks, wood, octagonal	1	...	...	...	...	...	...	...	...	...	37
Derricks, iron, loading	1	...	...	...	...	...	...	...	...	...	38
Eye pins, iron, securing guard, worm wheel	...	1	1	1	...	...	...	...	...	...	39

Where articles are interchangeable with others on the same line

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	1	...	...	1	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	...	...
14	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
17	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	*1*	*1*	...	1	...	...
20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...	...
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	1	*1	*1	1	1	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	1	1	1	...	...	1	1	...	...	...	1	...	1	...	1	...	1	1	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	1	1	...	...	1	1	...	...	...	1	...	...	...	1	...	1	1	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...

which a supply of spare is laid down, they are shown in *italics*.

* 2 per carriage for China, Malta, and Gibraltar.

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
					Garrison,						
		Howitzer, R.M.L.			Wood.						
			Steel.		R.B.L.		R.M.L.		S.B.		
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·3-in.	6·3-in.	No. 18, converted naval, 7-in., 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in., 65 cwt. No. 24, 58 cwt., and S.B. 32-pr., 58 cwt. No. 25, 58 cwt.	68-pr., 112 cwt., 8-in., 54 cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Flanges, roller, metal, rear, left ...	...	...	...	...	...	...	...	...	...	...	1
right	...	...	...	...	...	...	...	...	...	...	2
steel ... ... front	...	...	...	...	...	...	...	...	...	...	3
rear...	...	...	...	...	...	...	...	...	...	...	4
iron, front ... left ...	...	...	...	...	...	...	...	...	...	...	5
right	...	...	...	...	...	...	...	...	...	...	6
Guides, metal, arc, elevating	...	...	...	...	...	...	...	...	...	...	7
rack, elevating, left ...	...	...	...	...	...	...	...	...	...	...	8
right	...	...	...	...	...	...	...	...	...	...	9
iron, bar directing ... left ...	...	1	1	1	...	...	...	...	...	...	10
right	...	1	1	1	...	...	...	...	...	...	11
Guards, iron, chain, retaining ...	...	...	...	...	...	...	...	...	...	...	12
windlass, hauling down	...	...	...	...	...	...	...	...	...	...	13
leather...	2	...	...	...	...	...	...	...	...	...	14
Handles, iron, screw elevating ratchet head ...	...	...	...	...	1	1	1	1	1	...	15
starting	...	...	...	...	...	...	...	...	...	...	16
Hooks, iron, drag chain	...	...	...	...	...	...	...	...	...	...	17
drag shoe	...	...	...	...	...	...	...	...	...	...	18
Indicators, pressure spring, with leather case	...	...	...	...	...	...	...	...	...	...	19
Joints, iron, rocking levers	...	...	...	...	...	...	...	...	...	...	20
Keys, cap-square, with chains, iron ... No. 10 ...	4	...	...	...	...	...	...	...	...	...	21
,, 88 ...	...	...	...	...	...	...	...	...	...	...	22
,, 90 left ...	...	...	...	...	...	...	...	...	...	...	23
,, 91 right	...	...	...	...	...	...	...	...	...	...	24
,, 92 ...	...	...	...	...	...	...	...	...	...	...	25
,, 93 ...	...	...	...	...	...	...	...	...	...	...	26
,, 97 left ...	...	...	...	...	...	...	...	...	...	...	27
,, 98 right	...	...	...	...	...	...	...	...	...	...	28
,, 180 ..	...	...	...	...	4	...	...	...	...	...	29
,, 94 left ...	...	...	...	...	...	...	...	...	...	...	30
,, 95 right	...	...	...	...	...	...	...	...	...	...	31
steel ... No. 1... ...	...	4	...	...	...	...	...	...	...	...	32
,, 2... ...	...	...	4	4	...	...	...	...	...	...	33
,, 215 left...	...	...	...	...	...	...	...	...	...	...	34
,, 216 right	...	...	...	...	...	...	...	...	...	...	35
,, 224	...	...	...	...	...	...	...	...	...	...	36
,, 225 left...	...	...	...	...	...	...	...	...	...	...	37
,, 226 right	...	...	...	...	...	...	...	...	...	...	38
coin, with chains	2	...	...	...	...	...	...	...	...	...	39
securing guard, worm wheel ...	...	1	1	1	...	...	...	...	...	...	40
split axles, roller, so fitted	...	...	...	...	...	...	...	...	...	...	41
pin, directing bar, transporting bed, howitzer, R.M.L.	...	1	1	1	...	...	...	...	...	...	42

Where articles are interchangeable with others on the same line for

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	1	1	...	...	1	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...
2	...	1	1	...	...	1	1	1	..	1	1	1	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	.	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	1	1	...	...	1	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...
6	...	1	1	...	...	1	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...
7	...	...	...	1	1	...	...	4	1	...	...	1	...	...	1	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	...
15	...	1	1	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	2	4	2	2	2	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	1	1	1	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
20	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
22	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
23	...	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
24	...	*2*	*2*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
25	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
26	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	2	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	2	...	...	...	...	...	...	...	...	1	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
30	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...
31	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	1	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	*1*	*1*	...	...	1	...
38	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	...	*1*	*1*	...	...	1	...
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

which a supply of spare is laid down, they are shown in *italics*.

(EQ. R. 1028)

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.								
					Garrison,								
					Wood.								
		Howitzer, R.M.L.			R.B.L.		R.M.L.				S.B.		
			Steel.										
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No. 18, converted naval, 7-in., 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in., 65 cwt.	No. 24, 58 cwt., and S.B. 32-pr., 58 cwt.	No. 25, 58 cwt.	68-pr., 112cwt., 8-in., 54cwt., 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Lashings, tarred ... 2 inch 18 feet	...	...	...	...	...	...	...	...			...	...	1
1¼ ,, 64 ,, ...	...	1	1	1	...	...	...	...			...	...	2
1¼ ,, 50 ,, ...	...	2	3	3	...	...	...	...			...	...	3
1¼ ,, 22 ,, ...	...	1	...	...	...	...	...	...			...	...	4
Levers traversing	1	...	...	...	...	...	...	...			...	...	5
windlass, hauling down	...	...	...	...	...	...	...	...			...	...	6
Limbers, transporting bed, howitzer, R.M.L.	...	1	1	1	...	...	...	...			...	...	7
Links, adjusting, chain, retaining, with 3 india rubber and 2 iron rings, shackle, nut, pin, key and chain	...	...	...	...	...	...	...	...	...	...	...	...	8
Loops, iron common, with nuts ... side ...	...	4	4	4	...	...	...	...	...	...	...	...	9
transom ...	...	1	1	1	...	...	...	...	...	...	...	...	10
with plate, securing, piston, hydraulic buffer	...	...	...	...	...	...	...	...	...	...	...	...	11
rope, guide, rammer, with bolts ...	...	...	...	...	...	...	2	2	2	...	...	...	12
Nuts, metal, screw ... elevating	...	...	...	...	1	1	1	...	1	...	1	1	13
,, with pinion ...	...	...	...	...	...	...	...	...	...	...	...	...	14
Packings, cylinder, leather (12 per set) set	...	...	...	...	...	...	...	...	...	...	...	...	15
Pads, elastic pieces, buffer	...	...	...	...	...	...	...	...	...	...	...	...	16
Pawls, windlass, iron, hauling down ...	...	...	...	...	...	...	...	...	...	...	...	...	17
Pins iron bar connecting piston rod ...	...	...	...	...	...	...	...	...	...	...	...	...	18
bed, with chain	...	...	...	...	...	*1*	*1*	...	*1*	...	*1*	...	19
split key... ...	...	...	...	...	...	...	...	...	...	...	...	1	20
preventor rope...	...	...	...	...	...	*1*	*1*	...	*1*	...	*1*	*1*	21
sheave, with nut and split key	...	...	...	...	...	...	...	...	...	...	...	...	22
directing bar, transporting bed, howitzer, R.M.L.	...	1	1	1	...	...	...	...	...	...	...	...	23
linch, 1st class	...	...	...	...	...	...	...	...	...	...	...	...	24
windlass, with split key	...	...	...	...	...	...	...	...	...	...	...	...	25
Pintails, iron, with metal nut and washers	1	...	...	...	...	...	...	...	...	...	...	...	26
Plates iron clip with bolts front or rear	...	...	...	...	...	...	...	...	...	...	...	...	27
pairs front	...	...	...	...	...	...	...	...	...	...	...	...	28
rear	...	...	...	...	...	...	...	...	...	...	...	...	29
ground	...	...	...	...	...	...	...	...	...	...	...	...	30
rear roller drop	...	...	...	...	...	...	...	...	...	...	...	...	31
plain	...	...	...	...	...	...	...	...	...	...	...	...	32
with stop left	...	...	...	...	...	...	...	...	...	...	...	...	33
right	...	...	...	...	...	...	...	...	...	...	...	...	34
metal, trunnion	...	...	...	...	...	...	...	...	...	...	...	...	35
steel ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	36
Plugs filling hole, hydraulic buffer No. 20 ...	...	...	...	...	...	...	...	...	...	...	...	...	37
,, 22 ...	...	...	...	...	...	...	...	...	...	...	...	...	38
,, 40 ...	...	...	...	...	...	...	...	...	...	...	...	...	39
wood	1	...	...	...	...	...	...	...	...	...	...	...	40

Where articles are interchangeable with others on the same line for

* Per carriage, for

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3ft. 6in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr. 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
9	4	4	4	...	...	4	4	2	4	4	4	...	4	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	...	...	...	...
12	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	1	1	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
16	*1*	*1*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	1*	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	...	1	...	...	1	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
29	...	1	...	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...
31	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	2	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...
33	1	1	1	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...
34	1	1	1	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...
35	2	2	2	2	2	2	2	2	2	2	2	2	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
37	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
38	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1
39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	1	1
40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

which a supply of spare is laid down, they are shown in *italics*.
Siege Train only.

Beds and Carriages for Medium Ordnance,

57
Gen. No.
7230

Components.	Beds.				Carriages.						
					Garrison,						
					Wood.						
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Howitzer, R.M.L.			R.B.L.		R.M.L.		S.B.		
		Iron, 8-in.	Steel.								
			6·6-in.	6·3-in.	No. 18, converted naval, 7-in. 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8 in. 65 cwt. No. 24, 58 cwt., and S.B. 32-pr. 58 cwt. No. 25, 58 cwt.	68-pr., 112 cwt., 8-in., 54 cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Racks, steel, with bolts, running in and out	...	...	...	...	...	...	...	...	...	...	1
Rings, india-rubber, buffer, piston rod ...	...	...	...	...	...	...	...	...	...	...	2
Rings, india-rubber, link, retaining chain, 2¾ in. by ½ in., ⅝ in. hole	...		...	...	...	...	...	...	...	...	3
Rings, india-rubber, 11 in. by 3 in. by 6 in. hole	1	...	...	...	...	...	...	...	...	...	4
Rings, india-rubber, 7 „ „ 3 „ „ 2 „ „	20	...	...	...	...	...	...	...	...	...	5
Rings, india-rubber, 7 „ „ 1½ „ „ 3 „ „	2	...	...	...	...	...	...	...	...	...	6
Rings, packing, hydraulic buffer, leather, U section	...	...	...	...	...	...	...	...	...	...	7
... ...	...	6	6	6	...	...	...	...	...	...	8
Rollers, carriage, metal, No. 31	...	...	...	...	2†	2	2	2	2	2	9
Rollers, carriage, metal, „ 84	...	...	...	...	2§	...	...	...	...	...	10
Rollers, carriage, steel, No. 2	...	.	...	...	...	...	...	...	...	...	11
Rollers, carriage, steel, „ 3	...	...	...	...	...	...	...	...	...	...	12
Rollers, carriage, steel, „ 5	...	...	...	...	...	...	...	...	...	...	13
Rollers, wood, scotch	...	...	...	...	...	...	...	...	...	...	14
Rollers, wood, shifting gun	...	...	...	...	...	...	...	...	...	...	15
Ropes, hauling down, 5 in., 45 ft.	...	.	...	...	...	...	...	...	...	...	16
Screws, iron, elevating	...	...	...	...	1	1	1	1	1	1	17
Sheaves, metal, hauling down	...	...	...	...	...	...	...	...	...	...	18
Sheaves, metal, preventor rope, with pin ...	...	...	...	...	2	...	...	...	...	...	19
Shoes, drag, iron, 1st class	...	1	1	1	...	...	...	...	...	...	20
Sockets, iron, lever	...	...	...	...	2	...	...	...	...	...	21
Sockets, iron, priming iron with screws ...	...	1	1	1	...	...	...	...	...	...	22
Springs, steel, recoil, valve	...	...	...	...	...	...	...	...	...	...	23
Steps, wood ... ... side	...	...	...	...	...	...	...	...	...	...	24
Steps, wood ... ... laying	...	...	...	...	...	...	...	...	...	...	25
Spindles, iron, pawl, with collar and nut, left ...	...	...	...	...	...	...	. .	...	...	...	26
Spindles, iron, pawl, with collar and nut, right ...	...	...	...	...	...	...	...	...	...	...	27
Spindles, iron, sleeve, with cottar, collar, and split key, left ...	...	...	...	...	...	...	..	...	...	...	28
Spindles, iron, sleeve, with cottar, collar, and split key, right ...	...	..	...	...	...	...	...	...	...	...	29
Spindles, iron, screw, elevating, with collar, nut, and split key	...	..	...	...	...	...	...	...	...	...	30
Stays, iron, bar connecting, with nuts ...	...	...	...	...	...	...	..	...	...	...	31
Stops, iron, with screws, bar supporting compressor plates	...	...	...	...	...	...	...	...	...	...	32
Stops, iron, with screws, compressor plates ...	...	2	2	2	...	...	...	...	...	...	33
Steps, iron, laying, with bolts	...	...	...	...	...	...	...	...	...	...	34
Steps, iron, laying, „ key	...	...	...	...	...	...	...	...	...	...	35
Straps, leather, securing...	...	...	...	...	...	...	...	...	...	...	36

Where articles are interchangeable with others on the same line for

* Per carriage. † Inside and outside.

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6 in.	6·3 in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or Battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	4
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	2
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	‖1	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
17	...	1	1	...	...	1	1	...	...	...	1	...	1	1†	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	1	‖1	‖1	1	1	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
24	2	...	2	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
32	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	16	18	16	21	21	4	...	...	1 54″ × 1″ and 1 30″ × 1″

which a supply of spare is laid down, they are shown in *italics*.

‡ Front. § Rear.

‖ 2 per carriage for China, Malta, and Gibraltar.

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
					Garrison,						
		Howitzer R.M.L.			Wood.						
			Steel.		R.B.L.		R.M.L.		S.B.		
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No, 18, converted naval, 7-in., 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in., 65 cwt. No. 24, 58 cwt., and S.B. 32-pr., 58 cwt. No. 25, 58 cwt.	68-pr., 112 cwt., 8-in., 54 cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Stops, iron, rack, elevating — bottom	...	...	...	...	...	...	...	...	...	...	1
Stops, iron, rack, elevating — top	...	...	...	...	...	...	...	...	...	...	2
Washers — iron, drag, 1st class B.	...	...	...	...	...	...	...	...	...	...	3
Washers — leather, plug, filling	...	...	...	...	...	...	...	...	...	...	4
Wheels — iron, hand, elevating	...	...	...	...	...	...	...	...	...	...	5
Wheels — 1st class B. — No. 5 (6 ft)	...	...	...	...	...	...	...	...	...	...	6
57/Gen. No./7230 **Wheels** — 1st class B. — „ 6 (5 ft.)	...	2	2	2	...	...	...	...	...	...	7
Wheels — 1st class B. — „ 7 (5 ft.)	...	...	...	...	...	...	...	...	...	...	8
Windlasses, hauling down	...	...	...	...	...	...	...	...	...	...	9
BARS, DIRECTING.											
Bars, iron, compressor	...	4	4	4	...	...	...	...	...	...	10
Bodies, bar, directing	...	1	1	1	...	...	...	...	...	...	11
Buffers, consisting of — 2 elastic pads, 2 plates, with bolts and nuts, front	...	1	1	1	...	...	...	...	...	...	12
Buffers, consisting of — 3 elastic pads, 3 plates, with bolts and nuts, rear	...	1	1	1	...	...	...	...	...	...	13
Flaps, metal	...	1	1	1	...	...	...	...	...	...	14
Pads, elastic, pieces, buffer — front	...	2	...	...	...	...	...	...	...	...	15
Pads, elastic, pieces, buffer — front	...	...	2	2	...	...	...	...	...	...	16
Pads, elastic, pieces, buffer — rear	...	3	...	...	...	...	...	...	...	...	17
Pads, elastic, pieces, buffer — rear	...	...	2	3	...	...	...	...	...	...	18
Pins — steel, flap, with lanyard	...	1	1	1	...	...	...	...	...	...	19
Pins — iron, compressor bar, with collar and split keys	...	2	2	2	...	...	...	...	...	...	20
Rings, india rubber, 4 in. by ½ in., 2 in. hole	...	6	6	6	...	...	...	...	...	...	21
GEAR COMPRESSOR.											
Clamps, iron	...	1	1	1	...	...	...	...	...	...	22
Levers — iron — adjusting, with chain and key	...	1	1	1	...	...	...	...	...	...	23
Levers — iron — rocking — adjusting	...	...	...	...	...	...	...	...	...	...	24
Levers — iron — rocking — compressor	...	...	...	...	...	...	...	...	...	...	25
Levers — steel, compressor	...	1	1	1	...	...	...	...	...	...	26
Nuts, metal — adjusting, with 3 feathers	...	...	...	...	...	...	...	...	...	...	27
Nuts, metal — compressor	...	...	...	...	...	...	...	...	...	...	28
Pins, iron, rocking lever, with split key	...	...	...	...	...	...	...	...	...	...	29
Plates, iron, compressor	...	6	6	6	...	...	...	...	...	...	30

Where articles are interchangeable with others on the same line for

† Per carriage.

Component, and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt. for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	*2*	*2*	*2*	*2*	*2*	*2*	1*	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	3†
5	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	...	...	...	1
8	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1§
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	2	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	7	8	...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

which a supply of spare is laid down, they are shown in *italics*.

* Per carriage for Siege Train only.

§ Or wheel, 1st class, A, No. 1, in cases where such wheels are already on the carriage.

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
					Garrison,						
					Wood.						
		Howitzer, R.M.L.			R.B.L.		R.M.L.		S.B.		
			Steel.								
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No. 18, converted naval, 7-in. 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No 23, 71 cwt., and S.B. 8-in. 65 cwt. No. 24, 58 cwt., and S.B. 32-pr. 58 cwt. No. 25, 58 cwt.	68-pr., 112 cwt., 8-in., 54 cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Screws, iron, adjusting, with collar and key ...	...	1	1	1	...	...	...	...	...	...	1
Screws, iron, compressor, with collar and nut ...	...	1	1	1	...	...	...	...	...	...	2
Screws, iron, compressor, with collar key and nut...	...	...	...	...	...	...	...	...	...	...	3
Shafts, iron, adjusting, with collar, key and nut	...	...	...	...	...	...	...	...	...	...	4
GEAR, ELEVATING.											
	...	1	...	...	...	...	...	...	...	...	5
	...	...	1	...	...	...	...	...	...	...	6
	...	...	...	1	...	...	...	...	...	...	7
	...	...	...	...	...	...	...	...	...	...	8
	...	...	...	...	...	...	...	...	...	...	9
	...	...	...	...	...	...	...	...	...	...	10
Arcs, elevating, iron, right	...	...	...	...	...	...	...	...	...	...	11
	...	...	...	...	...	...	...	...	...	...	12
	...	...	...	...	...	...	...	...	...	...	13
	...	...	...	...	...	...	...	...	...	...	14
Arcs, elevating, iron	...	...	...	...	...	...	...	...	...	...	15
	...	...	...	...	...	...	...	...	...	...	16
	...	...	...	...	...	...	...	...	...	...	17
	...	...	...	...	...	...	...	...	...	...	18
Arcs, elevating, iron, left	...	...	...	...	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	20
Bands, iron, connecting arcs, with screws ...	...	...	...	...	...	...	...	...	...	...	21
Brakes cramp, iron, with pin and key ...	...	...	...	...	...	...	...	...	...	...	22
Brakes plates, friction steel pair	...	...	...	...	...	...	...	...	...	...	23
Brakes plates, friction metal ,,	...	...	...	...	...	...	...	...	...	...	24
Brakes screw, iron, jamming with split key	...	...	...	...	...	...	...	...	...	...	25
Brakes handle, iron	...	...	...	...	...	...	...	...	...	...	26
Capstan heads, iron, with feathers	...	...	...	...	...	...	...	...	...	...	27
Clamps, iron left	...	...	...	...	...	...	...	...	...	...	28
Clamps, iron right	...	...	...	...	...	...	...	...	...	...	29
Discs, metal, ratchet, spindle, worm ...	...	...	...	...	...	...	...	...	...	...	30
Guards metal, wheel worm	...	1	1	1	...	...	...	...	...	...	31
Guards metal, wheel spur	...	...	...	...	...	...	...	...	...	...	32
Guards iron, mitre wheel	...	...	...	...	...	...	...	...	...	...	33
Levers, iron jamming, right	...	...	...	...	...	...	...	...	...	...	34
Levers, iron spindle, worm, with collar and screws	...	...	...	...	...	...	...	...	...	...	35

Where articles are interchangeable with others on the same line for

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-in.					64-pr.									8-in.							
		for wood platfm.				71 cwt., for wood platfm.			64-cwt.													
	No. 1, 4 ft. 3 in. 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	1	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
10	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
12	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
13	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
17	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
18	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...
20	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
21	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...
32	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1

which a supply of spare is laid down, they are shown in *italics*.

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
		Howitzer, R.M.L.			Garrison,						
			steel.		Wood.						
					R.B.L.		R.M.L.		S.B.		
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No. 18, converted naval, 7-in., 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in., 65 cwt. No. 24, 58 cwt., and S.B. 32-pr., 58 cwt. No. 25, 58 cwt.	68-pr., 112cwt., 8-in., 54cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Pinions, elevating, metal	...	...	...	...	...	...	...	...	...	...	1
steel, bevel	...	...	...	...	...	...	...	...	...	...	2
steel, with spindles, left	...	...	...	...	...	...	...	...	...	...	3
right	...	...	...	...	...	...	...	...	...	...	4
2nd motion	...	...	...	...	...	...	...	...	...	...	5
	...	1	...	...	...	...	...	...	...	...	6
	...	...	...	...	...	...	...	...	...	...	7
	...	...	...	...	...	...	...	...	...	...	8
collars and nuts	...	...	...	...	...	...	...	...	...	...	9
	...	...	...	...	...	...	...	...	...	...	10
	...	...	...	...	...	...	...	...	...	...	11
1st motion	...	...	1	1	...	...	...	...	...	...	12
	...	...	...	...	...	...	...	...	...	...	13
	...	...	...	...	...	...	...	...	...	...	14
	...	...	...	...	...	...	...	...	...	...	15
2nd ,, ...	...	...	...	...	...	...	...	...	...	...	16
collars, nut and pin, 1st motion	...	...	...	...	...	...	...	...	...	...	17
and screw, 2nd motion	...	...	...	...	...	...	...	...	...	...	18
and nuts, 2nd and 3rd motion	...	...	...	2	...	...	...	...	...	...	19
	...	...	...	...	...	...	...	...	...	...	20
Pointers, steel, arc, elevating	...	...	...	...	...	...	...	...	...	...	21
Racks, iron, elevating, with collar and screws, left	...	...	...	...	...	...	...	...	...	...	22
right ...	...	...	...	...	...	...	..	...	...	...	23
Rollers, metal, friction, with spindle, nut and steel pin	...	...	...	...	...	...	...	...	...	...	24
collar, nut, and split key	...	2	2	1	...	...	...	...	...	...	25
Rods, iron, elevating	...	...	...	...	...	...	...	...	...	...	26
Screws, metal, lubricating holes	...	2	2	2	...	...	...	...	...	...	27
Shafts, iron, cross worm wheel, with collar and nuts	...	..	...	...	...	...	...	...	...	...	28
elevating, with collars and nuts ...	...	...	...	...	...	...	...	...	...	...	29
Spindles, iron, mitre wheel	...	...	...	...	...	...	...	...	...	...	30
worm, with collars and nuts ...	...	1	1	1	...	...	...	...	...	...	31
Studs, bearing, worm spindle	...	3	2	2	...	...	...	...	...	...	32
Tubes, metal, lubricating	...	1	1	1	...	...	...	...	...	...	33
Wheels, metal, hand, elevating	...	1	1	1	...	...	...	...	...	...	34
bevel	...	...	...	...	...	...	...	...	...	...	35
mitre	...	...	...	...	...	...	...	...	...	...	36
worm, with friction, cone, and feathers	...	1	1	1	...	...	...	...	...	...	37

Where articles are interchangeable with others on the same line for

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber R.M.L.			
	R.B.L.					R.M.L.									Howitzer, R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
5	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
7	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...
8	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...
10	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
13	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
14	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1*	*1*	...	...	1	...
16	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
17	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
18	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...
21	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
24	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	1	1	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
29	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	2	2	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	1	1	...	...	2	...	...	...	1	...	...	1	1	1	1	...	...	...	...
35	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	...	...

which a supply of spare is laid down, they are shown in *italics.*

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
					Garrison,						
		Howitzer, R.M.L.			Wood.						
					R.B.L.		R.M.L.		S.B.		
			Steel.								
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3.in.	No. 18, converted naval, 7-in., 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in., 65 cwt. No. 24, 58 cwt., and S.B. 32-pr., 58 cwt. No. 25, 58 cwt.	68-pr., 112cwt., 8-in., 54cwt., 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzer, 10 and 8-in.	
Wheels, iron hand, elevating	...	...	...	...	...	...	...	...	...	...	1
spur, 2nd motion	...	...	...	...	...	...	...	...	...	...	2
spur	...	...	...	...	...	...	...	...	...	...	3
GEAR, RUNNING UP.											
Axles, iron, roller, front, with split key ...	...	...	...	...	...	...	...	...	...	...	4
Rollers, metal carriage front No. 29 ...	...	...	...	...	...	...	...	...	...	...	5
,, 32 ...	...	...	...	...	...	...	...	...	...	...	6
rear No. 71 ...	...	...	...	...	...	...	...	...	...	...	7
,, 73 ...	...	...	...	...	...	...	...	...	...	...	8
,, 95 ...	...	...	...	...	...	...	...	...	...	...	9
Shafts, iron eccentric, double, with split keys ...	...	...	...	...	...	...	...	...	...	...	10
eccentric, double	...	...	...	...	...	...	...	...	...	...	11
Sockets, iron, lever, with pawl, pin, and split key left, No. 1	...	...	...	...	...	...	...	...	...	...	12
right, No. 2	...	...	...	...	...	...	...	...	...	...	13
LIMBER, IRON SIEGE.											
57 Gen. No. 7230 **Axletrees,** 2nd class, "C," No. 92	...	...	...	...	...	...	...	...	...	...	14
Bars, splinter, limber, siege, iron	...	...	...	...	...	...	...	...	...	...	15
Boxes ammunition (limber) near ...wood	...	...	...	...	...	...	...	...	...	...	16
off ... ,,	...	...	...	...	...	...	...	...	...	...	17
centre (limber) ... ... ,,	...	...	...	...	...	...	...	...	...	...	18
grease, 3 lb. ... ... tin	...	...	...	...	...	...	...	...	...	...	19
limber ... ...wood	...	...	...	...	...	...	...	...	...	...	20
Cans glycerine, 1 gallon ... tin	...	...	...	...	...	...	...	...	...	...	21
lubricating, No. 5* ... ,,	...	...	...	..	...	...	...	...	...	...	22
oil, 2 gallons* ... ,,	...	...	...	...	...	...	...	...	...	...	23
Keys limber hook, No. 1, steel, with chain	...	...	...	...	...	...	...	...	...	...	24
socket, outrigger, iron, with chain and loop	...	...	...	...	...	...	...	...	...	...	25
Limbers, body, iron...	...	...	...	...	...	...	...	...	...	...	26
Loops, draught double	...	...	...	...	...	...	...	...	...	...	27
single cranked ...	...	...	...	...	...	...	...	...	...	...	28
plain	...	...	...	...	...	...	...	...	...	...	29
shoulder	...	...	...	...	...	...	...	...	...	...	30
Outriggers, limber, iron, siege ...	...	...	...	...	...	...	...	...	...	...	31

57 Gen No. 7230

Where articles are interchangeable with others on the same line for

* For siege train only.

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
3	..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	2	2	2	...	...	2	2	2	...	2	2	2	...	...	...	...	...	...	...	...	...	...
5	2	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	2	2	2	...	2	2	2	...	...	...	...	...	...	...	...	...	...
7	2	2	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	2	2	2	...	...	2	..	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
10	1	1	1	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
12	*1*	*1*	*1*	...	...	*1*	*1*	*1*	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	1
13	*1*	*1*	*1*	...	...	*1*	*1*	*1*	...	*1*	*1*	...	...	...	...	...	...	...	...	...	...	1
14	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	...	...	...
21	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	1	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	...

which a supply of spare is laid down, they are shown in *italics*.

Beds and Carriages for Medium Ordnance,

Components.	Beds.				Carriages.						
					Garrison,						
		Howitzer, R.M.L.			Wood.						
					R.B.L.		R.M.L.		S.B.		
			Steel.								
	Mortar, naval, with octagonal deck, 13-in., 100 cwt.	Iron, 8-in.	6·6-in.	6·3-in.	No. 18, converted naval, 7-in. 72 cwt.	Nos. 15 to 17, 7-in. Nos. 19 to 20, 40-pr.	Nos. 21, 22, 80-pr., S.B. 68-pr.	No. 23, 71 cwt., and S.B. 8-in. 65 cwt. No. 24, 58 cwt., and S.B. 32-pr. 58 cwt. No. 25, 58 cwt.	68-pr., 112 cwt., 8-in., 54cwt. 32-pr., 63 cwt., 50 cwt., 24 and 18-pr.	Howitzers, 10 and 8-in.	
Pins linch, 2nd class, steel	...	...	...	...	...	...	...	...	...	...	1
Pins shaft No. 1 shaft, iron, with key and chain	...	...	...	...	...	...	...	...	...	...	2
Pins shaft No. 16 shaft, iron, with key and chain	...	...	...	...	...	...	...	...	...	...	3
Shafts, No. 1 (near)	...	...	...	...	...	...	...	...	...	...	4
Shafts, „ 16 (framed) ...pairs	...	...	...	...	...	...	...	...	...	...	5
Shafts, „ 20 (off)	...	...	...	...	...	...	...	...	...	...	6
Sockets, outrigger	...	...	...	...	...	...	...	...	...	...	7
Stays outrigger	...	...	...	...	...	...	...	...	...	...	8
Stays splinter, bar	...	...	...	...	...	...	...	...	...	...	9
Straps, securing, leather... sets (*See* Table of Service Straps.)	...	...	...	...	...	...	...	...	...	...	10
Swingletrees, No. 1	...	...	...	...	...	...	...	...	...	...	11
Washers, loop, 2nd class, C	...	...	...	...	...	...	...	...	...	...	12
Wheels, 2nd class, C, No. 39†	...	...	...	...	...	...	...	...	...	...	13

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Gen. No.
7230

Where articles are interchangeable with others on the same line for

† If the axletrees have not been altered for the 11-inch pipe box, wheels, 2nd class, B, No. 25, will be required instead of those shown.

Component and Spare Parts for—*continued.*

	Carriages.																			Proportions of spare for each		
	Sliding.													Siege.								
	Iron.													Iron, with limber.					Steel, with limber, R.M.L.			
	R.B.L.					R.M.L.									Howitzer R.M.L.							
	7-inch.					64-pr.									8-in.							
		for wood platform				71 cwt., for wood platfm.			64 cwt.													
	No. 1, 4 ft. 3 in., 3 ft. 6 in. or 2 ft. 7 in. parapet.	No. 3, 3 ft. 6 in. parapet.	No. 2, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.	No. 10, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 11, 3 ft. 6 in. parapet.	No. 12, 2 ft. 7 in. parapet.	No. 8, 6 ft. parapet.	No. 9, 5 ft. 6 in. parapet.	No. 13, 58 cwt. for wood platform, 4 ft. 3 in. or 3 ft. 6 in. parapet.	No. 14, 40-pr.	No. 6, S.B.B.L. 32-pr.	Gun, R.B.L. 40-pr., 6 ft. parapet.	70 cwt.	46 cwt.	6·6-in.	6·3-in.	6·6-in. gun.	Detached group of Sub-Districts, per 10 guns, howitzers or mortars, or less No. of each nature.	Sub-District, per 10 guns, howitzers or mortars, or less No. of each nature.	Fort or battery, per 10 guns, howitzers or mortars, or less No. of each nature.
1	...	...	...	...	..	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	1‡
2	...	...	...	...	..	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	1‡
3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	1‡
4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	1
5	...	...	...	...	...	...	...	...	...	...	...	...	..	1	1	1	1	1	1	...	...	1
6	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	1
7	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	...
8	...	...	...	...	...	...	...	...	.	...	...	...	..	2	2	2	2	2	2	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	1‡
12	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1	1	...	...	1‡
13	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	2	2	2	...	...	1

which a supply of spare is laid down, they are shown in *italics.*

‡ One per limber for siege train only.

MONCRIEFF WROUGHT-IRON GARRISON CARRIAGES, COMPONENT AND SPARE PARTS FOR.

Components.	R.B.L., 7-in.	R.M.L.				Proportions of spare for each		
		9-in. (Mark II.)	7-in.		64/32-pr., 58 cwt.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
			(Mark I.)	(Mark II.)				
CARRIAGES.								
Bearings, metal, cylindrical, trunnion	2	2	...	2	2	...	...	...
Bearings, metal, with screws, shaft, elevating	...	...	2	...	...	...	...	...
Bearings, metal, with screws, shaft, connecting	...	...	2	...	...	...	...	...
Brackets, metal, with bolts or screws, shaft, elevating	...	...	1	...	...	...	...	...
Brackets, metal, with bolts or screws, spindle worm, centre	...	...	1	...	...	...	...	...
Brackets, metal, with bolts or screws, spindle worm, front	...	...	1	...	...	...	...	...
Brackets, metal, with bolts or screws, spindle worm, rear	...	...	1	...	...	...	...	...
Cap squares cast-iron, left	...	...	...	...	1	...	...	...
Cap squares cast-iron, right	...	...	...	...	1	...	...	...
Cap squares wrought-iron, left	1	1	1	1	...	...	...	...
Cap squares wrought-iron, right	1	1	1	1	...	...	...	...
Carriages, body, iron, without fittings	...	...	1	...	...	...	...	...
Carriages, body, iron, without fittings, with counter-weight	1	1	...	1	1	...	...	...
Collars, iron, axle, with screws	...	...	2	...	...	...	...	...
Guides, iron, arc, elevating	...	...	2	...	...	...	...	...
Loops, iron, lifting, counterweight	...	4	...	2	...	...	...	...
Rollers, iron	...	...	2	...	...	...	...	...
Screws, iron, cap square	4	4	4	4	4	...	...	...
Screws, iron, preserving	...	8	...	6	...	...	...	...
Stages, laying,	...	...	1	...	...	...	...	...
Steps, side, left	...	...	1	...	...	...	...	...
Steps, side, right	...	...	1	...	...	...	...	...
ELEVATORS.								
Elevators, body, iron, without fittings, with counterweight	...	...	1	...	...	...	...	...
Guards, iron, turning, stage-loading	...	...	2	...	...	...	...	...
Guides, iron, shot	...	...	1	...	...	...	...	...
Screws, iron, securing, loop-washer	...	...	2	...	...	...	...	...
Shafts iron, connecting	...	...	1	...	...	...	...	...
Washers, iron, loop, connecting shaft	...	...	2	...	...	...	...	...
SLIDES.								
Axles, truck, steel, bevel wheel	...	...	2	...	...	1	...	...
Axles, truck, steel, with nuts, plain	...	...	2	...	...	1	...	...
Axles, truck, iron, with collars and nuts, bevel wheel	...	2	...	...	...	1	...	...
Axles, truck, iron, with collars and nuts, plain	...	4	...	...	...	1	...	...
Axles, truck, iron, with collars and pins, bevel wheel	...	...	...	2	...	1	...	...
Axles, truck, iron, with collars and pins, plain	...	...	...	2	...	1	...	...
Axles, truck, iron, with collars and pins, plain, front	...	...	...	...	2	1	...	...
Axles, truck, iron, with collars and pins, plain, rear	...	...	...	...	1	1	...	...
Axles, truck, iron, with nuts, bevel wheel	2	...	...	...	.	1	...	...
Axles, truck, iron, with nuts, plain	2	...	...	...	...	1		...

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued.*

Components.	R.B.L., 7-in.	R.M.L. 9-in. (Mark II.)	R.M.L. 7-in. (Mark I.)	R.M.L. 7-in. (Mark II.)	R.M.L. 64/32-pr., 58 cwt.	Proportions of spare for each: Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Proportions of spare for each: Sub-District. per 10 guns, or less No. of each nature.	Proportions of spare for each: Fort or Battery. per 10 guns, or less No. of each nature.
Bearings, metal, with bolts or screws ... flanges, for trucks, front ... inside	...	...	1	...	...	...	...	...
outside	...	...	1	...	...	...	...	...
rear ... inside	...	...	1	...	...	...	...	...
outside	...	...	1	...	...	...	...	...
pinion, spindle bevel, gear, traversing ... front...	...	1	...	...	...	...	...	...
rear ...	...	1	...	...	...	...	...	...
shafts ... elevating	...	1	...	...	...	...	...	...
main ... inside	...	4	..	2	...	...	...	...
outside	...	2	...	2	...	...	...	...
retaining	...	2	...	...	...	...	...	...
2nd motion	...	...	2	...	...	...	...	...
longitudinal, long, front...	...	...	1	...	...	...	...	...
spindle for clutch pinion ... left ...	...	...	...	1	...	...	...	...
right...	...	...	..	1	...	...	...	...
pinion, hand wheel	...	1	...	...	...	...	...	...
Bollards, with ratchet wheel left ...	1	1	1	1	...	...	...	...
right ...	1	1	1	1	...	...	...	...
Bolts, iron, cap, pinion spindle, rack retaining, with 2 nuts	...	...	8	...	...	4	...	...
Brackets, complete, with bolts or screws, cast-iron friction roller, arc ... ... left	1	...	...	...	1	...	...	...
right	1	...	...	...	1	...	...	...
guide, rack retaining centre, right	1	...	...	...	1	...	...	...
front left	1	...	...	...	1	...	...	...
right	1	...	...	...	1	...	...	...
rear ... left	1	...	...	...	1	...	...	...
right	1	...	...	...	1	...	...	...
hook, preventor ... ... left	...	...	1	...	...	...	...	...
right	...	...	1	...	...	...	...	...
pinion, spindle bevel for trucks ... ... front	1	...	...	1	...	...	...	...
rear	1	...	...	1	...	...	...	...
winch handle front	1	...	...	...	...	...	...	...
front ... inside	...	...	...	1	...	...	...	...
outside	...	...	...	1	...	...	...	...
rear	1	...	...	...	...	...	...	...
rear ... inside	...	...	...	1	...	...	...	...
outside	...	...	...	1	...	...	...	...
elevating inside ... left	1	...	...	...	1	...	...	...
right	1	..	...	...	1	...	...	...
outside	1	...	...	1	1	...	...	...
rack, retaining	...	...	2	...	...	...	...	...
rear, truck	...	...	...	...	2	...	...	...
shafts connecting, brake levers... left	...	1	1	1	...	...	...	...
right	...	1	1	1	...	...	...	...
elevating ... ... left	...	1	...	...	...	...	...	...
right	...	1	...	...	...	...	...	...
longitudinal long intermediate front	...	...	1	...	...	...	...	...
rear	...	...	1	...	..	...	...	...
rear	...	.	1	...	...	...	...	...
short ... ... front	...	...	1	...	...	...	...	...
rear	...	...	1	...	...	...	...	...
main ... ... left	1	...	...	...	1	...	...	...
right	1	...	...	...	1	...	...	...
retaining ... ... left	...	1	...	...	...	...	...	...
right	...	1	...	...	...	...	...	...
vertical ... ... top	...	...	1	...	...	...	...	...
bottom	...	...	1	...	...	...	...	...

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued.*

Components.					R.B.L., 7-in.	R.M.L.				Proportions of spare for each		
						9-in. (Mark II.)	7-in. (Mark I.)	7-in. (Mark II.)	$\frac{64}{32}$-pr. 58 cwt.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
Brackets, with bolts or screws	cast-iron	spindle	pinion, hand wheel		...	1	...	...	...	...	...	...
			windlass	left	...	1	...	...	...	...	...	...
				right	...	1	...	...	...	...	...	...
			worm		1	...	...	1	1	...	...	...
			worm	front	...	1	...	...	...	...	...	...
				rear	...	1	...	...	...	...	...	...
		stage, loading		left	...	...	1	...	...	...	...	...
				right	...	...	1	...	...	...	...	...
		wheel, spur and pinion, gear traversing		front	...	1	...	...	...	...	...	...
				rear	...	1	...	...	...	...	...	...
	metal	guide, pointer			...	1	...	...	...	...	...	...
		pinion, spindle	hauling down		...	...	1	...	...	...	...	...
			rack, retaining	left	...	...	1	...	...	...	...	...
				right	...	...	1	...	...	...	...	...
			spur, winch handle	left	...	...	1	...	...	...	...	...
				right	...	...	1	...	...	...	...	...
		spindle, for clutch pinion		left	...	...	...	1	...	...	...	...
				right	...	...	...	1	...	...	...	...
	iron	friction roller, arc, with collar and pin		left	...	1	...	...	...	...	...	...
				right	...	1	...	...	...	...	...	...
		guide	elevating	left	1	1	...	1	1	...	...	...
				right	1	1	...	1	1	...	...	...
			hook, preventor	left	...	...	1	...	...	...	...	...
				right	...	...	1	...	...	...	...	...
		lever, brake			...	2	...	...	...	...	...	...
		pinion, spindle, elevating, and friction roller		left	...	...	...	1	...	...	...	...
				right	...	...	...	1	...	...	...	...
		shaft	cross, 2nd motion		...	...	1	...	...	...	...	...
			longitudinal, long, front		...	...	1	...	...	...	...	...
		sheave, loading gear, pair		bottom	...	1	...	1	...	...	...	...
				centre	...	1	...	1	...	...	...	...
				top	...	1	...	1	...	...	...	...
		spindle	bollard	left	1	1	...	...	...	...	...	...
				right	1	1	...	...	...	...	...	...
			pawl ...	left	...	1	...	...	...	...	...	...
				right	...	1	...	...	...	...	...	...
		standard ...		left	...	...	...	...	1	...	...	...
				right	...	...	...	...	1	...	...	...
Buffers, including		spindles and keys, with disc springs			...	1	...	...	...	...	...	...
		stop, spindle and nut, with disc springs		left	1	...	...	...	...	...	...	...
				right	1	...	...	...	...	...	...	...
Flanges, truck	cast	iron	front	left	1	...	...	1	1	...	...	...
				right	1	...	...	1	1	...	...	...
			rear	left	1	...	...	1	...	...	...	...
				right	1	...	...	1	...	...	...	...
		steel	centre	left	...	1	...	...	...	...	...	...
				right	...	1	...	...	...	...	...	...
			front	left	...	1	...	...	...	...	...	...
				right	...	1	...	...	...	...	...	...
			rear	left	...	1	...	...	...	...	...	...
				right	...	1	...	...	...	...	...	...
	iron, pairs		front	left	...	...	1	...	...	...	...	...
				right	...	...	1	...	...	...	...	...
			rear	left	...	...	1	...	...	...	...	...
				right	...	...	1	...	...	...	...	...

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued.*

Components.	R.B.L., 7-in.	R.M.L.				Proportions of spare for each		
		9-in. (Mark II.)	7-in. (Mark I.)	7-in. (Mark II.)	64-pr., 58 cwt.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
Ladders, iron, with bolts, and stays left	1	...	1	1	1	...	...	...
right	...	...	1	...	...	...	...	...
long	...	1	...	...	...	...	...	...
short	...	1	...	...	...	...	...	...
Pawls, iron, bollard left	1	1	1	1	...	...	...	...
right	1	1	1	1	...	...	...	...
Pointers, iron, with screws and steel plate front	...	1	...	...	...	...	...	...
rear	...	1	1	...	...	...	...	...
front	1	...	...	1	1	...	...	...
rear	1	...	...	1	1	...	...	...
Slides, L body, iron, without fittings	1	1	1	1	1	...	...	...
Spindles, iron bollard, with collar, nuts, and screws	...	...	...	2	...	...	...	...
nuts	...	...	2	...	...	...	...	...
buffer, with keys	...	6	...	...	...	...	3	...
Springs, disc, spindle buffer No. 4	12	36	34	...	...	...	...	...
„ 5	...	...	...	...	16	...	...	...
Stages, wood, with stays landing left	1	1	1	1	1	...	...	...
right	...	...	1	...	...	...	...	...
loading central	...	1	...	1	...	...	...	...
front	...	...	1	...	...	...	...	...
left	...	...	1	...	...	...	...	...
right	...	...	1	...	...	...	...	...
Stops, iron, guide elevating, with screws	1	...	...	...	1	...	...	...
Studs, iron, pawl, bollard, with collars, nuts, and pins	...	...	...	2	...	...	...	...
screws	...	...	2	...	...	...	...	...
Trays, wood shot truck	...	1	...	...	...	...	...	...
side arms	...	1	...	2	...	...	...	...
Trucks cast-iron plain 30-in. diameter	...	4	...	...	...	...	...	...
front or rear, right 18-in. diameter	...	...	...	...	2	...	...	...
21-in. diameter	...	...	...	2	...	...	...	...
20 „	2	...	...	...	...	...	...	...
rear, 24-inch diameter	...	...	...	...	1	...	...	...
with bevel wheel, left front, 30 „	...	1	...	...	...	...	...	...
rear, 30 „	...	1	...	...	...	...	...	...
front, 21 „	...	...	...	1	...	...	...	...
rear, 21 „	...	...	...	1	...	...	...	...
front, 20 „	1	...	...	...	...	...	...	...
rear, 20 „	1	...	...	...	...	...	...	...
wrought-iron, plain left, 16 „	...	...	2	...	...	...	...	...
right, 16 „	...	...	2	...	...	...	...	...
GEAR, ELEVATING.								
Arcs, iron, elevating left	...	...	1	...	...	...	1	...
right	...	...	1	...	...	...	1	...
Bars, iron, radius, complete left	1	1	...	1	1	...	...	...
right	1	1	...	1	1	...	...	...
Bolts, iron, with nut and collar, cascable	...	1	...	...	...	...	...	...
connecting links	...	1	...	...	...	...	...	...
Collars cast-iron, bar, radius	2	...	...	...	2	...	...	...
iron bar, radius	...	...	...	2	...	...	...	...
cascable	...	2	...	...	...	...	...	...
jamming	...	...	1	...	...	...	...	...
Cones, cast-iron, friction inside	1	1	1	1	1	...	...	...
outside	1	1	1	1	1	...	...	...
Covers, iron, worm spindle	1	1		...	...	...	...	...
wheel	1	1	...	1	1	...	...	...

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued.*

Components.	R.B.L., 7-in.	R.M.L.				Proportions of spare for each		
		9-in. (Mark II.)	7-in. (Mark I.)	7-in. (Mark II.)	64/32-pr., 58 cwt.	Detached group of Sub-Districts. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No. of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
Guides, iron, elevating, with arc ... central ...	1	...	...	1	1	...	...	...
left ...	...	1	...	...	...	...	...	...
right ...	...	1	...	...	...	...	...	...
Levers, iron, jamming, with set screw ...	...	...	1	...	...	...	...	...
Links, iron, connecting ... front left ...	..	1	...	...	...	...	...	...
front right ...	...	1	...	...	...	...	...	...
rear ... left ...	...	1	...	...	...	...	...	...
rear ... right ...	..	1	...	...	...	...	...	...
Pinions, iron, elevating ... left ...	...	...	1	...	...	...	1	...
right ...	...	...	1	..	...	...	1	...
with spindles and nut ...	...	...	...	1	...	...	1	...
	1	...	...	...	...	...	1	...
with spindles collars, nuts, and pins ...	...	...	...	...	1	...	1	...
Pins, iron, with collar and pin ... guide, elevating ...	1	...	...	1	1	...	...	...
rod, connecting ...	1	...	..	1	1	...	...	...
Plates, metal, indicator, with screws ...	...	...	...	1	...	...	...	...
Pointers ... steel elevating, arc ...	...	...	1	...	...	...	...	...
steel indicator ...	...	1	...	...	...	...	...	...
wrought-iron, indicator ...	1	...	..	1	1	...	...	...
Rods, iron, connecting central, with bolts ...	1	...	...	1	1	...	...	...
left ...	...	1	...	...	...	...	...	...
right ...	...	1	...	...	...	...	...	...
Rollers, friction ... cast-iron arc, elevating ...	...	...	...	1	1	...	...	...
cast-iron guide, elevating ...	2*	...	...	...	2	...	...	...
metal ... arc, elevating ...	...	2	...	...	..	...	...	...
metal ... guide, elevating ...	...	2	...	...	1	...	...	...
wrought-iron guide, elevating ...	...	...	...	1	—	...	...	...
wrought-iron arc " ...	1	...	...	...	—	...	...	...
Screws, iron, jamming, spindle, worm ...	...	...	1	...	—	...	...	...
Shafts, iron with key and nuts ...	...	...	1	...	...	...	...	...
with pinions and nuts ...	...	1	...	...	...	...	...	...
Spindles, iron, with collar and ... nut, worm ...	1	1	1	1	1	...	...	...
pin, friction, roller arc, elevating ...	1	...	...	1	1	...	...	...
pin, friction, roller guide, elevating ...	1	2	...	1	1	...	...	...
Stages, wood, laying, with stays ...	1	1	...	1	1	...	...	...
Steps, wood, stage, laying ...	...	1	...	...	...	...	...	...
Wheels metal, worm ...	1	1	1	1	1	...	...	...
iron, hand ...	1	1	2	1	1	...	...	...
GEAR, LOADING.								
Chains, iron, with hook ...	...	1	...	1	...	...	...	...
Guards, iron, spur wheel, and pinion ...	...	1	...	...	...	...	...	...
Pinions, M. cast-iron or steel, spur, 14 teeth ...	...	1	...	...	...	...	...	...
Pins, iron, sheave ... cheese-head, with collar and pin long ...	...	1	...	1	...	...	...	...
cheese-head, with collar and pin short ...	...	1	...	1	...	...	...	...
plain ...	...	1	...	1	...	...	...	...
Sheaves ... cast-iron bottom ...	...	...	...	1	...	...	...	...
cast-iron centre ...	...	...	...	1	...	...	...	...
cast-iron top ...	...	...	...	1	...	...	...	...
metal ... bottom ...	...	1	...	...	...	...	...	...
metal ... centre ...	...	1	...	...	...	...	...	...
metal ... top ...	...	1	...	...	...	...	...	...
Spindles, iron, with collar, and ... nut, pinion, hand-wheel ...	...	1	...	...	...	...	...	...
pin, windlass ...	...	1	...	...	.	...	...	...
Trucks, projectile, iron, complete ...	...	†1	...	1	...	...	...	...

* 1 left and 1 right. † With sling.

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued.*

Components.	R.B.L., 7-in.	R.M.L. 9-in. (Mark II.)	R.M.L. 7-in. (Mark I.)	R.M.L. 7-in. (Mark II.)	32-pr., 58 cwt.	Proportions of spare for each: Detached group of Sub-Districts, per 10 guns, or less No. of each nature.	Sub-District, per 10 guns, or less No. of each nature.	Fort or Battery, per 10 guns, or less No. of each nature.
Wheels M. cast-iron or steel, spur, 58 teeth ...	...	1	...	...	...	...	...	...
Wheels iron, hand	...	1	...	...	...	...	...	...
Windlass, cast-iron	...	1	...	...	...	...	...	...
GEAR, RETAINING								
Bands, friction, brake drum, with bolts ... iron left	...	..	...	...	1	...	...	1
	...	1	...	...	...	...	...	1
	...	...	...	1	...	...	...	1
	1	...	...	...	...	...	...	1
Bands iron right	...	1	...	...	...	...	...	1
	...	...	...	1	...	...	...	1
Bands steel left	...	...	1	...	...	...	...	1
Bands steel right	...	...	1	...	...	...	...	1
Bars, iron, connecting, with bolts left	1	1	...	1	1	...	...	...
Bars right...	1	1	...	1	1	...	...	...
Capstan, heads, cast-iron	2	...	...	...	...	...	1	...
	...	...	...	...	2	...	1	...
Collars, iron, shaft main...	2	2	...	2	2	...	...	...
Collars retaining	...	2	...	...	...	...	...	...
Counterweights, cast-iron, brake lever, with set screws	1	2	2	2	1	...	...	...
Covers, iron, complete ... ... brake drum ... left ...	...	1	1	1	...	...	...	...
Covers brake drum right ...	...	1	1	1	...	...	...	...
Covers wheel, spur, and pinion clutch ... left ...	...	...	...	1	...	...	...	...
Covers wheel, spur, and pinion clutch ... right ...	...	..	...	1	...	...	...	...
Covers rollers, rack, retaining ... ... left ...	1	1	...	1	1	...	...	...
Covers rollers, rack, retaining ... ... right ...	1	1	...	1	1	...	...	...
Cranks, iron, connecting, brake levers	..	2	2	2	...	...	...	...
Drums, brake, complete ... left...	1	...	...	...	...	...	1	...
	...	1	...	...	...	...	1	...
	...	...	1	...	...	...	1	...
	...	...	..	1	...	...	1	...
	...	...	...	...	1	...	1	...
Drums right	...	1	...	...	...	...	1	...
	...	...	1	...	...	...	1	...
	...	...	..	1	...	...	1	...
Guards, iron, brake drum, complete ... left...	...	1	...	1	...	...	...	...
Guards right	...	1	...	1	...	...	...	...
Hooks, iron, preventor, with collars and nuts ...	...	...	2	...	...	1	...	...
Levers metal, clutch	...	...	...	2	...	...	...	2
Levers pointed No. 2 light	...	...	...	...	3	...	...	2
Levers pointed ,, 5 Moncrieff R.M.L. 9-in	...	3	...	...	..	...	...	2
Levers pointed ,, 7 Moncrieff R.M.L. 7-in. 4 ft. 1 in. (Mark III.)	...	...	3	..	...	...	...	2
Levers pointed ,, 6 Moncrieff R.M.L. 7-in. 4 ft. 4 in. ...	...	...	...	3	...	...	...	2
Levers pointed ,, 4 Moncrieff R.B.L., 7-in.	2	...	...	...	...	...	...	...
Levers iron, brake band	1	2	2	2	1	...	...	...
Levers iron, brake shaft, connecting	...	2	2	2	...	...	...	...
Links, iron, adjusting, brake levers, with pins and keys ... ... pairs	...	2	2	2	..	...	...	...
Pawls, iron rack retaining left	1	1	...	1	1	...	...	...
Pawls rack retaining right	1	1	...	1	1	...	...	...
Pawls spur wheel, main shaft	...	4	...	...	...	...	...	...
Pinions iron, spur clutch, 10 teeth	...	...	...	2	...	...	...	...
Pinions iron, spur rack, retaining 9 teeth ...	...	...	...	...	2	...	...	...
Pinions iron, spur rack, retaining 8 ,, ...	2	...	...	2	...	...	...	...
Pinions iron, spur shaft ,, 9 ,, ...	...	2	...	...	...	...	...	...
Pinions spindle, hauling down	...	...	1	...	...	...	...	...

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued.*

Components.	R.B.L., 7-in.	R.M.L.				Proportions of spare for each		
		9-in. (Mark II.)	7-in.		$\frac{64}{32}$-pr., 58 cwt.	Detached groups of Sub-District. per 10 guns, or less No. of each nature.	Sub-District. per 10 guns, or less No of each nature.	Fort or Battery. per 10 guns, or less No. of each nature.
			(Mark I.)	(Mark II.)				
Pinions, steel, spur, rack retaining ... 8 teeth...	...	2	...	...	...	...	...	...
with spindles, collars, and nuts	...	...	2	...	...	...	...	...
Pins, iron, securing lever, clutch	...	...	...	2	...	...	...	...
spindle, pinion, hauling down	...	..	1	...	...	...	...	...
Plates, iron, with screws ... ... boss, brake band ... pairs	...	2	...	2	...	...	...	...
locking, brake lever ...	...	...	2	...	...	...	...	...
Racks, iron retaining ... cycloidal left	...	...	1	...	...	...	...	...
cycloidal right	...	...	1	...	...	...	...	...
left	1	1	...	1	1	...	...	...
right	1	1	...	1	1	...	...	...
Rings, hook, preventor ... india-rubber set (of 8)	...	...	1	...	...	½ set.	...	...
iron, set (of 6)	...	...	1	...	...	...	...	...
Rollers, rack, retaining ... metal set (of 8)	...	1	...	...	...	½ set.	...	...
	...	...	...	1	...	½ set.	...	...
	...	...	...	...	1	½ set.	...	...
metal set (of 4)	1	...	...	...	...	½ set.	...	...
iron, set (of 4)	1	1	...	...	...	...	...	...
Screws iron cover, brake drum, sets ... (of 12)	...	1	...	...	...	1½ set.	...	...
(of 8)	...	...	1	...	...	1½ set.	...	...
(of 10)	...	...	...	1	...	1½ set.	...	...
for springs, wheel, spur	...	12	...	...	...	...	...	...
links, adjusting, brake levers	...	2	2	2	...	...	...	...
(or spindles) rollers, rack, retaining set (of 4)	1	...	...	...	...	½ set.	...	...
	...	...	...	1	...	½ set.	...	...
	...	...	...	...	1	½ set.	...	...
plate, locking, brake lever hex. head... ...	...	...	2	...	...	3	...	...
slotted	...	...	2	...	...	3	...	...
steel (or spindles) rollers, rack retaining, set (of 4)	...	1	...	...	...	½ set.	...	...
Shafts ... steel, main, with nuts	...	1	...	...	...	...	...	...
iron connecting brake levers	...	1	1	1	...	...	...	...
main, with nuts	1	...	...	1	1	...	...	...
retaining, with nuts	...	1	...	...	...	...	...	...
Sockets, iron, lever (with pawls) ... No. 9	...	2	...	...	...	...	..	1
,, 10	...	...	2	...	...	...	...	1
,, 11	...	...	...	2	...	...	...	1
Spindles, iron, with nuts ... collars and pins, bar, connecting ...	...	...	...	2	2	...	...	...
and collars bar, connecting	2	2	...	...	...	...	...	...
clutch, pinion	...	...	...	2	...	...	...	...
pawl, wheel, spur	...	4	...	...	...	...	...	...
pawl, rack, retaining	2	2	...	2	2	...	...	...
Springs, steel, pawl brake drum	4	...	...	...	...	...	...	2
	...	12	...	...	...	...	...	6
	...	...	8	...	...	...	...	4
	...	...	...	8	...	...	...	4
	...	...	...	...	4	...	...	2
spur wheel	...	4	...	...	...	...	...	2
Stops, iron, with handle, spur wheel	...	1	...	...	...	...	...	...
Wheels M. cast-iron or steel, spur, shaft, main, 58 teeth ... left ...	...	1	...	...	...	...	...	...
right ...	...	1	...	...	...	...	...	...
iron, pawl pinion, spindle, rack, retaining	...	...	2	...	...	...	...	...
shaft main	...	2	...	...	...	...	...	...
shaft retaining... ...	...	2	...	...	...	...	...	...
spindle, clutch, pinion ...	...	...	...	2	...	...	...	...
spur shaft, main, 40 teeth left ...	...	...	...	1	...	...	...	...
right ...	...	...	...	1	...	...	...	...
hauling down	...	...	1	...	...	...	...	...

Moncrieff Wrought-Iron Garrison Carriages, Component and Spare Parts for—*continued*.

Components.	R B.L., 7-in.	R.M.L. 9-in. (Mark II.)	R.M.L. 7-in. (Mark I.)	R.M.L. 7-in. (Mark II.)	32-pr., 58 cwt.	Proportions of spare for each: Detached group of Sub Districts. per 10 guns, or less No. of each nature.	Proportions of spare for each: Sub-District. per 10 guns, or less No. of each nature.	Proportions of spare for each: Fort or Battery. per 10 guns, or less No. of each nature.
GEAR, TRAVERSING.								
Clutches, metal	...	1	...	...	...	...	...	...
Collars, iron, shaft, longitudinal, with screws	...	...	2	...	...	...	...	...
Covers, iron, complete, pinion, bevel, shaft, vertical	...	...	1	...	...	...	...	...
Covers, iron, complete, wheel and pinion, bevel, front	1	...	...	1	...	...	...	...
Covers, iron, complete, wheel and pinion, bevel, rear	1	...	...	1	...	...	...	...
Covers, iron, complete, wheel and pinion, spur... left	...	...	1	...	...	...	...	...
Covers, iron, complete, wheel and pinion, spur... right	...	...	1	...	...	...	...	...
Covers, iron, complete, wheel, bevel, front truck	...	...	1	...	...	...	...	...
Covers, iron, complete, wheel, spur... left	...	...	1	...	...	...	...	...
Covers, iron, complete, wheel, spur... right	...	...	1	...	...	...	...	...
Guides, iron, lever clutch, with pin and chain	...	1	...	...	...	...	...	...
Guards, iron, spur wheel, front	...	2	...	...	...	...	...	...
Guards, iron, spur wheel, rear	...	2	...	...	...	...	...	...
Handles, iron, winch, No. 12	2	...	...	...	...	...	...	1
Handles, iron, winch, ,, 13	...	2	...	...	...	...	...	1
Handles, iron, winch, ,, 14	...	...	2	...	...	...	...	1
Handles, iron, winch, ,, 15	...	...	...	2	...	...	...	1
Keys, iron, driving shaft	...	...	6	...	...	...	...	...
Levers, iron, clutch	...	1	...	..	..	...	...	...
Pinions, bevel, M. cast-iron or steel, shaft, longitudinal, long, 14 teeth	...	...	1	...	...	...	...	...
Pinions, bevel, M. cast-iron or steel, shaft, longitudinal, short, 14 teeth	...	...	1	...	...	...	...	...
Pinions, bevel, M. cast-iron or steel, shaft, vertical, 15 teeth	...	...	1	...	...	...	1	...
Pinions, bevel, M. cast-iron or steel, with spindle, for trucks, 8 teeth, front	1	...	...	1	...	...	...	...
Pinions, bevel, M. cast-iron or steel, with spindle, for trucks, 8 teeth, rear	1	...	...	1	...	...	...	...
Pinions, bevel, metal, shaft, cross, 28 teeth	...	...	1	...	...	...	...	...
Pinions, bevel, metal, shaft, vertical, 28 teeth	...	...	1	...	...	...	...	...
Pinions, bevel, steel, with spindle, for trucks, 8 teeth, front	...	1	...	...	...	...	...	...
Pinions, bevel, steel, with spindle, for trucks, 8 teeth, rear	...	1	...	...	...	...	...	...
Pinions, winch handle, M. cast-iron or steel, spur, with wrought-iron spindles, 14 teeth	...	...	2	...	...	...	1	...
Pinions, winch handle, M. cast-iron or steel, bevel, with spindle, front, 12 teeth	...	...	...	1	...	...	1	...
Pinions, winch handle, M. cast-iron or steel, bevel, with spindle, front, 8 ,,	1	...	...	...	...	...	1	...
Pinions, winch handle, M. cast-iron or steel, bevel, with spindle, rear... 9 ,,	...	...	...	1	...	...	1	...
Pinions, winch handle, M. cast-iron or steel, bevel, with spindle, rear... 8 ,,	1	...	...	...	...	...	1	...
Pinions, winch handle, wrought-iron, spur, with spindle, 9 teeth, front	...	1	...	...	...	...	1	...
Pinions, winch handle, wrought-iron, spur, with spindle, 9 teeth, rear	...	1	...	...	...	...	1	...
Pins, iron, joint, lever clutch, with nut	...	1	...	...	...	...	...	...
Shafts, iron... cross, 2nd motion	...	...	1	...	...	...	...	...
Shafts, iron... longitudinal, long	...	...	1	...	...	...	...	...
Shafts, iron... longitudinal, short	...	...	1	...	...	...	...	...
Shafts, iron... vertical	...	...	1	...	...	...	...	...
Spindles, iron, wheel, spur, intermediate	...	2	...	...	...	...	...	...
Studs, iron, lever clutch, with nut	...	1	...	...	...	...	...	...
Wheels, M. cast-iron or steel, bevel, for trucks, front, 18 teeth	...	...	1	...	...	...	...	...
Wheels, M. cast-iron or steel, bevel, for trucks, rear, 26 ,,	...	...	1	...	...	...	...	...
Wheels, M. cast-iron or steel, bevel, front or rear, 25 teeth	2	...	...	...	...	...	1	...
Wheels, M. cast-iron or steel, bevel, front, 31 teeth	...	...	...	1	...	...	1	...
Wheels, M. cast-iron or steel, bevel, rear, 40 teeth	...	...	...	1	...	...	1	...
Wheels, M. cast-iron or steel, bevel, shaft, longitudinal, long, front, 30 teeth	...	...	1	...	...	...	...	...
Wheels, M. cast-iron or steel, bevel, shaft, longitudinal, short, rear, 30 teeth	...	...	1	...	...	...	...	...
Wheels, M. cast-iron or steel, spur... front, 53 teeth	...	1	...	...	...	...	1	...
Wheels, M. cast-iron or steel, spur... intermediate, 20 teeth	...	2	...	...	...	...	1	...
Wheels, M. cast-iron or steel, spur... rear, with clutch, 53 teeth	...	1	...	...	...	...	1	...
Wheels, M. cast-iron or steel, spur... 58 teeth	...	...	2	...	...	...	1	...

PLATFORMS, GROUND, AND SLIDES, L,‡ FOR MEDIUM, PARTS

Components.	Platforms, ground.			Slides,							
				Wood.							
				R.B.L.							
				7-inch.							
				or R.M.L. 64-pr.							
				71 and 58 cwt.		71 cwt.					
	Siege, double decked, C pivot, Mark I.	R.M.L. howitzer beds.	Mortar octagonal deck.	No. 11, 4 ft. 3 in. parapet.	No. 12, 3 ft. 6 in. parapet.	No. 13, 3 ft. 6 in. parapet. 11 ft.	No. 14 and 40-pr., R.M.L., 80-pr. 5 tons, 64-pr. 58 cwt. also S.B. casemate.	No. 15, 72 cwt. convtd. slide.	No 16, also R.M.L. 80-pr. 5 tons, and 64-pr. dwarf.	No. 17, 40-pr. & S.B. dwarf, also R.M.L. A&B pivots 80-pr. 5 tons.	
Axles, truck, iron, with split keys, front or rear	...	...	...	4	4	4	2	...	4	4	1
steel, with collars and split keys, front or rear	...	...	...	...	...	...	...	...	...	...	2
	...	...	...	...	...	...	...	...	...	...	3
	...	...	...	...	...	...	...	...	...	...	4
	...	...	...	...	...	...	...	...	...	...	5
	...	...	...	...	...	...	...	...	...	...	6
	...	...	...	...	...	...	...	...	...	...	7
Bands, iron, axletree, transporting	...	...	...	2	2	2	2	...	2	2	8
securing hydraulic buffer, front	...	...	...	1	1	...	...	...	...	...	9
rear	...	...	...	1	1	...	...	...	...	...	10
Beams, wood, double	...	...	3	...	...	...	...	...	...	...	11
Bearings, metal, indicator	...	...	...	...	...	...	...	...	...	...	12
shaft, brake	...	...	...	...	...	...	...	...	...	...	13
1st motion	...	...	...	...	...	...	...	...	...	...	14
2nd ,,	...	...	...	...	...	...	...	...	...	...	15
3rd ,,	...	...	...	...	...	...	...	...	...	...	16
Blocks, wood, cross, rear	...	...	...	...	...	...	...	...	...	1	17
Bollards, wood	...	...	...	...	...	...	1	1	1	1	18
Bolts, iron with collars and nuts, connecting	...	4	...	...	...	...	...	...	...	...	19
flange, front	...	...	...	2	2	2	2	...	2	2	20
rear	...	...	...	2	2	2	2	...	2	2	21
Brackets, with bolts or screws, cast-iron, derrick, loading	...	...	...	...	...	...	...	...	...	...	22
metal, levers, pointer	...	...	...	...	...	...	...	...	...	...	23
clutch	...	...	...	...	...	...	...	...	...	...	24
iron pointed, pairs	...	...	...	...	...	...	...	...	...	...	25
shaft, brake	...	...	...	...	...	...	...	...	...	...	26
iron, compressor bars, front	...	...	...	...	...	1	...	...	...	...	27
rear, left	...	...	...	...	...	...	...	...	...	...	28
right	...	...	...	...	...	...	...	...	...	...	29
guide, lever, clutch	...	...	...	...	...	...	...	...	...	...	30
hydraulic buffer	...	...	...	...	...	...	...	...	...	...	31
pans, drip, front	...	...	...	...	...	...	...	...	...	...	32
rear	...	...	...	...	...	...	...	...	...	...	33
side arms, front, double	...	...	...	...	...	...	...	...	...	...	34
single	...	...	...	...	...	...	...	...	...	...	35
rear, double	...	...	...	...	...	...	...	...	...	...	36
single	...	...	...	...	...	...	...	...	...	...	37
tripper, with collar and split key	...	...	...	...	...	1	...	...	...	...	33

NOTE.—Where articles are interchangeable with others on the same line for

‡ Not yet manufactured.

RIFLED, AND S.B. ORDNANCE, COMPONENT AND SPARE FOR.

	L, Traversing.													Proportions of spare for each		
				Iron.												
	R.M.L			R.B.L.					R.M.L.							
				7-inch.					7-in. 6½ tons.	64-pr. 64 cwt.						
	No. 18, 80-pr. 5 tons, 64-pr. 71 and 58 cwt., 6 ft. parapet.	No. 19, 64-pr. 71 cwt., 2 ft. 7 in. parapet.	No. 20, 64-pr. 71 cwt., 6 ft. parapet.	No. 1, 4 ft. 3 in. parapet.	No. 2, 3 ft. 6 in. parapet.	No. 3, 2 ft. 7 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.†	No. 7, 6 ft. parapet.	No. 8, Mark III. gun, 6 ft. parapet, with circular buffer.	No. 9, 5 ft. 6 in. parapet.	No. 10, 40-pr.	No. 6, S.B. B.L. 32-pr.	Detached group of Sub-districts, per 10 guns or less No. of each nature.	Sub-district per 10 guns, or less No. of each nature.	Fort or Battery, per 10 guns or less No. of each nature.
1	4	2	4	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	*4*	*4*	*4*	...	...	...	...	...	...	...	1	...	...
3	...	...	...	...	...	...	*4*	...	...	...	...	...	...	1	...	...
4	...	...	...	...	...	...	...	4	...	...	...	...	...	1	...	...
5	...	...	...	...	...	...	...	...	4	...	...	...	...	1	...	...
6	...	...	...	...	...	...	...	...	...	*4*	*4*	...	...	1	...	...
7	...	...	...	...	...	...	...	...	...	...	...	4	...	1	...	...
8	2	2	2	2	2	2	...	...	...	...	2	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	1	1	...	1	1	1	...	...	...	...	1	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
20	2	2	2	...	...	...	...	...	2	2	2	...	...	...	...	...
21	2	2	2	...	...	...	...	...	2	2	2	...	...	...	...	...
22	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...
23	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
25	...	...	...	2	2	2	...	...	...	...	2	2	...	...	...	...
26	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
27	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...
28	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...
29	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
34	...	...	...	...	...	...	...	...	...	2	2	1	...	...	...	...
35	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
37	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...
38	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...

which a supply of spare is laid down, they are shown in *italics*.

Platforms, ground, and Slides, L, for Medium, Rifled, and S.B.

Components.	Platforms, ground. Siege, double decked, C pivot, Mark I.	Platforms, ground. R.M.L. howitzer beds.	Platforms, ground. Mortar, octagonal deck.	Slides, Wood. R.B.L. 7-inch. or R.M.L. 64-pr. 71 and 58 cwt. No. 11, 4 ft. 3 in. parapet.	Slides, Wood. R.B.L. 7-inch. or R.M.L. 64-pr. 71 and 58 cwt. No. 12, 3 ft. 6 in. parapet.	Slides, Wood. R.B.L. 7-inch. or R.M.L. 64-pr. 71 cwt. No. 13, 3 ft. 6 in. parapet. 11 ft.	Slides, Wood. R.B.L. 7-inch. No. 14 and 40-pr., R.M.L., 80-pr. 5 tons, 64-pr. 58 cwt., also S.B. casemate.	Slides, Wood. R.B.L. 7-inch. No. 15, 72 cwt. convtd. slide.	Slides, Wood. R.B.L. 7-inch. No. 16, also R.M.L. 80-pr. 5 tons, and 64-pr. dwarf.	Slides, Wood. R.B.L. No. 17, 40-pr. & S.B. dwarf, also R.M.L. A & B pivots 80-pr. 5 tons	
Buffers, hydraulic	...	...	...	*1*	*1*	...	...	...	...	...	1
	...	...	...	...	...	...	...	...	...	...	2
	...	...	...	...	...	...	...	...	...	...	3
	...	...	...	...	...	...	...	...	...	...	4
Buffers, front, consisting of: wood, block, angle bar, 4 spindles and keys, with disc springs	...	...	...	.	...	...	...	...	...	...	5
2 brackets (1 left and 1 right), 2 spindles and keys, with disc springs	...	...	...	...	...	...	...	...	...	...	6
wood block, 2 spindles, with nuts and keys, with disc springs	...	...	...	...	...	...	...	..	...	...	7
Buffers, rear, consisting of 2 brackets (1 left and 1 right): 2 spindles and keys, with disc springs	...	...	...	...	...	...	...	...	...	...	8
2 spindles and keys, with disc springs	...	...	...	...	...	...	...	...	...	...	9
2 spindles, with nuts and keys, with disc springs	...	...	...	...	...	...	...	...	...	...	10
wood block, 2 spindles, with nuts and keys, with disc springs	...	...	...	...	...	...	...	...	...	...	11
Carlings, wood, beams	...	...	4	...	...	...	...	...	...	...	12
Carlings, wood, sleepers	...	...	1	...	...	...	...	...	...	...	13
Catches, iron, buffer, rear, with bolts ...	...	...	...	...	...	...	...	...	...	...	14
Derricks, iron, loading, with bearer complete	...	...	...	...	...	...	...	...	...	...	15
Flanges, for trucks: cast iron, front	...	...	...	...	2	2	...	...	...	...	16
cast iron, rear	...	...	...	4†	2	2	2	...	4†	4†	17
steel, front	...	...	...	...	...	...	...	...		...	18
steel, rear...	...	...	...	...	...	...	...	...	...	...	19
steel, rear, left	...	...	...	...	...	...	...	...	...	...	20
steel, rear, right ...	...	...	...	...	...	...	...	...	...	...	21
metal front	...	...	...	...	...	...	2	...	...	...	22
iron (in 2 pieces each) 1 fore and 1 hind, front, left ...	...	...	...	...	...	...	...	...	...	...	23
iron, front, right ...	...	...	...	...	...	...	...	...	...	...	24
iron, rear, left ...	...	...	...	...	.	...	..	...	...	...	25
iron, rear, right ...	...	...	...	...	...	...	...	...	...	...	26
Keys, iron, forelock, pivot, with lanyard ...	...	1	...	..	...	...	...	...	...	...	27
split, flat, pivot...	...	1	...	...	..	...	...	...	...	...	28
split, flat, pin, securing ...	...	4	...	...	...	...	...	...	...	...	29
split, axles, truck, traversing platform	...	...	...	...	...	...	...	...	...	...	30
Loops, iron, with nuts	...	...	...	...	...	...	...	...	...	...	31
Loops, iron, screwed	...	2	...	...	...	...	...	...	...	...	32

Note.—Where articles are interchangeable with others on the same line for

† Also front. ‡ Not yet manufactured.

Ordnance, Component and Spare Parts for—*continued.*

	L, Traversing.													Proportions of spare for each		
	Iron.															
	R.M.L.			R.B L.					R.M.L.							
				7-inch.					7-in. 6½ tons.	64-pr. 64-cwt.						
	No. 18, 80-pr. 5 tons, 64 pr. 71 and 58 cwt., 6 ft. parapet.	No. 19, 64-pr. 71 cwt, 2 ft. 7 in. parapet.	No. 20, 64-pr. 71 cwt., 6 ft. parapet.	No. 1, 4 ft. 3 in. parapet.	No. 2, 3 ft. 6 in. parapet.	No. 3, 2 ft. 7 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.‡	No. 7, 6 ft. parapet.	No. 8. Mark III. gun, 6 ft. parapet, with circular buffer.	No. 9, 5 ft. 6 in. parapet.	No. 10. 40-pr.	No. 6, S.B. B.L. 32-pr.	Detached group of Sub-districts, per 10 guns or less No. of each nature.	Sub-district, per 10 guns, or less No. of each nature.	Fort or Battery, per 10 guns or less No. of each nature.
1	...	*1*	...	...	...	...	...	...	...	...	...	...	...	1	...	...
2	...	...	1	...	...	...	...	...	...	1	...	...	...	1	...	...
3	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...
4	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...
5	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
8	...	...	...	1	1	1	...	...	1	...	...	1	...	...	...	...
9	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
15	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	4†	2	4†	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...		..	2	2	2	...	...	...	...	...
19	...	...	...	...	...	...	...	...	2	2	2	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
22	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	1	1	1	1	1	...	...	...	1	1	...	...	...
24	...	...	...	1	1	1	1	1	...	...	...	1	1	...	...	...
25	...	...	...	1	1	1	1	1	...	...	...	1	...	...	...	...
26	...	...	...	1	1	1	1	1	...	..	...	1	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
31	...	...	...	4	4	4	4	4	4	4	4	4	4	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...

which a supply of spare is laid down, they are shown in *italics*.

Platforms, ground, and Slides, L, for Medium, Rifled, and S.B.

Components.	Platforms, ground.			Slides,							
				Wood.							
				R.B.L.							
				7-inch.							
				or R.M.L. 64-pr.							
				71 and 58 cwt.		71 cwt.					
	Siege, double decked, C pivot, Mark I.	R.M.L. howitzer beds.	Mortar octagonal deck.	No. 11, 4 ft. 3 in. parapet.	No. 12, 3 ft. 6 in. parapet,	No. 13, 3 ft. 6 in. parapet, 11 ft.	No. 14, and 40-pr., R.M.L., 80-pr. 5 tons, 64-pr. 58 cwt. also S.B. casemate.	No. 15, 72 cwt. convtd. slide.	No. 16, also R.M.L. 80-pr. 5 tons, and 64-pr. dwarf.	No. 17, 40-pr. & S.B. dwarf, also R.M.L. A&B. pivots 80-pr. 5 tons	
front ...	...	...	...	...	...	...	...	...	...	...	1
Pads, elastic, pieces, buffer	...	...	...	...	...	...	...	...	...	...	2
rear	...	...	...	...	...	...	...	...	...	...	3
Pins, iron, securing pivot	...	4	...	...	...	...	...	...	...	...	4
Post, hand	...	...	...	...	...	...	2§	...	2§	2§	5
Pointer, steel	...	...	...	...	...	...	...	...	...	...	6
near	...	1	...	...	...	...	...	...	...	...	7
centre off	...	1	...	...	...	...	...	...	...	...	8
Planks, set	...	...	...	...	...	...	...	...	...	...	9
wood 18 ft.	16	...	...	...	...	...	...	...	...	...	10
12 ft.	28	...	...	...	...	...	...	...	...	...	11
Pivots, iron, with metal plate	1	1	...	...	...	...	...	...	...	...	12
Plates iron, pivot	...	1	...	...	...	...	...	...	...	...	13
steel, pivot, with bolts	1	...	...	...	...	...	...	...	...	...	14
Plugs, filling-hole, No. 20...	...	...	...	1	1	...	...	...	...	...	15
hydraulic buffer No. 45...	...	...	...	...	...	...	...	...	...	...	16
Screws, coach 8 in.	64	...	...	...	...	...	...	...	...	...	17
5 in.	40	...	...	...	...	...	...	...	...	...	18
Sides, wood near	...	1	...	...	...	...	...	...	...	...	19
off	...	1	...	...	...	...	...	...	...	...	20
Sleepers, wood	...	...	4	...	...	...	...	...	...	...	21
Slides, L, body	...	...	...	1	1	1	1	1	1	1	22
front ...	...	...	...	...	...	...	...	...	...	...	23
Spindles, iron, buffer, front or rear	...	...	...	...	...	...	...	...	...	...	24
with keys	...	...	...	...	...	...	...	...	...	...	25
rear... ...	...	...	...	...	...	...	...	...	...	...	26
	...	...	...	...	...	...	...	...	...	...	27
buffer, with collar front ...	...	...	...	...	...	...	...	...	...	...	28
Spindles, and nuts rear ...	...	...	...	...	...	...	...	...	...	...	29
iron bollard, with bolts, nut and collar	...	...	...	...	...	...	...	...	...	...	30
Springs, disc, spindle, buffer, No. 6 ...	...	...	...	...	...	...	...	...	...	...	31
Stays, iron, centre	...	1	...	...	...	...	...	...	...	...	32
double front	...	...	...	...	...	...	...	...	...	...	33
rear...	...	...	...	...	...	...	...	...	...	...	34
Steps side left	...	...	...	1	1	...	...	...	1	1	35
wood right	...	...	...	1	1	...	...	...	1	1	36
sighting	...	...	...	...	...	...	1§	...	1§	1§	37
Tanks, iron, sponge	...	...	...	...	...	...	...	...	...	...	38

NOTE.— Where articles are interchangeable with others on the same line

‡ Not yet manufactured. § 80-pr. only.

‖ For R.B.L. 7-inch, Nos. 1, 2 and 3, and No. 6, S.B., B.L., 32-pr.

Ordnance, Component and Spare Parts for—*continued.*

	L, Traversing.													Proportions of spare for each		
				Iron.												
	R.M.L.			R.B.L.					R.M.L.							
				7-inch.					7-in. 6½ tons.	64-pr. 64 cwt.						
	No. 18, 80-pr. 5 tons, 64-pr. 71 and 58 cwt., 6 ft. parapet.	No. 19, 64-pr. 71 cwt., 2 ft. 7 in. parapet.	No. 20, 64-pr. 71 cwt., 6 ft. parapet.	No. 1, 4 ft. 3 in. parapet.	No. 2, 3 ft. 6 in. parapet.	No. 3, 2 ft. 7 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr. ‡	No. 7, 6 ft. parapet.	No. 8, Mark III. gun, 6 ft. parapet, with circular buffer.	No. 9, 5 ft. 6 in. parapet.	No. 10, 40-pr.	No. 6, S.B. B.L. 32-pr.	Detached group of Sub-districts, per 10 guns or less No. of each nature.	Sub-district, per 10 guns, or less No. of each nature.	Fort or Battery, per 10 guns or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	8	...	2	...
2	...	...	...	...	...	..	...	...	...	6	...	...	...	...	2	...
3	...	...	...	...	...	...	...	...	...	...	...	...	8	...	2	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	2§	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
6	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	1	1	1	...	...	...	...	1	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	1	1	1	1	1	...	...	...	1	...	1	...	...	1	1
16	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	1
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	1	1	1	1	1	1	1	1	1	1	1	1	...	...	...	...
23	...	...	...	*4*	*4*	*4*	...	...	...	...	...	...	...	...	1	...
24	...	...	...	...	...	...	...	...	4	...	...	...	...	...	1	...
25	...	...	...	...	...	...	...	...	...	...	...	4	...	...	1	...
26	...	...	...	*2*	*2*	*2*	...	...	...	...	...	...	...	...	1	...
27	...	...	...	...	...	...	*2*	*2*	...	...	...	...	...	...	1	...
28	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...
29	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...
30	...	...	...	1	1	1	...	...	...	...	1	...	...	...	...	...
31	...	...	...	42	42	42	14	12	28	12	...	28	52	...	...	4‖ 2*
32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
34	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
35	1	...	1	1	1	...	1	...	1	1	1	...	...	...	...	...
36	1	...	1	1	1	...	1	...	1	1	1	...	...	...	...	...
37	1§	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...

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for which a supply of spare is laid down, they are shown in *italics*.

* For R.B.L. Nos. 4 & 5, R.M.L. 7-in. 6½ tons, No. 7, 64-pr. 64 cwt., No. 8 & No. 10, 40-pr.

Platforms, ground, and Slides, L, for Medium, Rifled, and S.B.

Components.	Platforms, ground.			Slides,							
				Wood.							
				R.B.L.							
				7-inch.						No. 17, 40-pr. & S.B. dwarf, also R.M.L. A&B pivots 80-pr. 5 tons	
				or R.M.L. 64-pr.			No. 14 and 40-pr., R.M.L., 80-pr. 5 tons, 64-pr. 58 cwt. also S.B. casemate.	No. 15, 72 cwt. convtd. slide.	No. 16, also R.M.L. 80-pr. 5 tons, and 64-pr. dwarf.		
				71 and 58 cwt.		71 cwt.					
	Siege, double decked, O pivot, Mark I.	R.M.L. howitzer beds.	Mortar, octagonal deck.	No. 11, 4 ft. 3 in. parapet.	No. 12, 3 ft. 6 in. parapet.	No. 13, 3 ft. 6 in. parapet, 11 ft.					
Transoms, wood, front	...	1	...	...	...	...	...	...	...	...	1
rear	...	1	...	...	...	...	...	...	...	...	2
Trucks, steel, front	...	...	...	...	...	...	...	...	...	...	3
rear	...	...	...	...	...	...	...	...	...	...	4
iron, front	...	...	...	...	2	2	2	...	...	...	5
rear	...	...	...	4†	2	2	2	...	4†	4†	6
GEAR, COMPRESSOR.											
Bars, compressor, iron	...	...	...	...	...	7	...	...	...	...	7
Collars, iron, compressor pin, thick	...	...	...	...	...	...	...	...	...	...	8
thin	...	...	...	...	...	12	...	...	...	...	9
Pins, iron, compressor bar, with split key	...	...	...	...	...	2	...	...	...	...	10
Trippers, iron	...	...	...	...	...	1	...	...	...	...	11
GEAR, RUNNING IN AND OUT.											
Bands, steel, brake	...	...	...	...	...	...	...	...	...	...	12
Blocks, metal, thrust	...	...	...	...	...	...	...	...	...	...	13
Clutches, metal	...	...	...	...	...	...	...	...	...	...	14
Handles, iron, winch, No. 10	...	...	...	...	...	...	...	...	...	...	15
,, 11	...	...	...	...	...	...	...	...	...	...	16
Levers, iron, adjusting, brake bands	...	...	...	...	...	...	...	...	...	...	17
brake	...	...	...	...	...	...	...	...	...	...	18
clutch	...	...	...	...	...	...	...	...	...	...	19
Pawls, iron	...	..	...	...	...	...	...	...	...	...	20
Pinions, metal, clutch	...	...	...	...	...	...	...	...	...	...	21
shafts, 1st motion	...	...	...	...	...	...	...	...	...	...	22
Pins, steel, connecting brake bands with collar and split key	...	...	...	...	...	...	...	...	...	...	23
iron, securing lever clutch with chain	...	...	...	...	...	...	...	...	...	...	24
Pointers, steel, indicator	...	...	...	...	...	...	...	...	...	...	25
Shafts, iron, 1st motion	...	...	...	...	...	...	...	...	...	...	26
2nd ,,	...	...	...	...	...	...	...	...	...	...	27
3rd ,,	...	...	...	...	...	...	...	...	...	...	28
brake ,,	...	...	...	..	...	...	...	...	...	...	29
Sockets, iron, adjusting brake bands	...	...	...	...	...	...	...	...	...	...	30
Spindles, iron, pawl, with collar	...	...	...	...	...	...	...	...	...	...	31
Wheels, pawl	...	...	...	...	...	...	...	...	...	...	32
spur, 2nd motion	...	...	...	...	...	...	...	...	...	...	33
3rd ,,	...	...	...	...	...	...	...	...	...	...	34

NOTE.—Where articles are interchangeable with others on the same line
† Also front. ‡ Not yet manufactured.

Ordnance, with Component and Spare Parts for the same—*continued.*

	L, Traversing.													Proportions of spare for each		
				Iron.												
	R.M.L.			R.B.L.					R.M.L.							
				7-inch.					7-in. 6½ tons.	64-pr. 64-cwt.						
	No. 18, 80-pr. 5 tons, 64-pr. 71 and 58 cwt., 6 ft. parapet.	No. 19, 64-pr. 71 cwt., 2 ft. 7 in. parapet.	No. 20, 64-pr. 71 cwt., 6 ft. parapet.	No. 1, 4 ft. 3 in. parapet.	No. 2, 3 ft. 6 in. parapet.	No. 3, 2 ft. 7 in. parapet.	No. 4, 40-pr.	No. 5, 20-pr.‡	No. 7, 6 ft. parapet.	No. 8, Mark III. gun, 6 ft. parapet with circular buffer.	No. 9, 5 ft. 6 in. parapet.	No. 10, 40-pr.	No. 6, S.B. B.L. 32-pr.	Detached group of Sub-districts, per 10 guns or less No. of each nature.	Sub-district per 10 guns, or less No. of each nature.	Fort or Battery, per 10 guns or less No. of each nature.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...
5	...	2	...	2	2	2	...	...	2	2	2	2	2	...	...	...
6	4†	2	4†	2	2	2	...	...	2	2	2	2	2	...	...	...
7	...	...	...	6	6	6	...	...	...	...	...	...	...	...	...	...
8	...	...	...	4	4	4	...	...	...	...	...	...	...	...	...	...
9	...	...	...	10	10	10	...	...	...	...	...	...	...	...	...	...
10	...	...	...	2	2	2	...	...	...	...	...	...	...	...	...	...
11	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	1
16	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1
17	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...

for which a supply of spare is laid down, they are shown in *italics*.

CARRIAGE, GARRISON, Q.F. 6-INCH (MARK I).

Steel; with shield, 3 electric cables, 2 contact-boxes, battery box, and traversing rack, with fixing screws.

Component and Spare Parts.

57

Gen. No.
9910

Components.	No.	Proportion of spare: In R.A. Charge.	Proportion of spare: In A.O. Charge, per District.*
Band, supporting battery box, steel, with screws	1	...	...
Brackets — carrying gear, left, steel, with screws	1	...	...
Brackets — carrying gear, right ,, ,,	1	...	...
Brackets — elevating gear, metal, with cover and screws	1	...	...
Brackets — guide pulley, indicator gear, metal, with screws	1	...	...
Brackets — pointer, indicator gear, metal, with screws and arrow plate	1	...	...
Brackets — shaft rack, pinion, bottom, steel, with screws	1	...	...
Brackets — shaft rack, pinion, top, left, metal, with cover and screws	1	...	...
Brackets — shaft rack, pinion, top, right, metal, with screws	1	...	...
Brackets — shield, protecting gun layer, metal, with screws	1	...	...
Brackets — spindle, worm, traversing, metal, with screws	1	...	...
Brackets — stop, depression, metal, with screws	1	...	...
Brackets — supporting, lower contact box, metal, with securing pin (in 2 parts), with keep pin and securing screws	1	...	...
Brackets — supporting, pistol grip, metal, with screws	1	...	...
Brackets — supporting, rocking bar sights, manganese bronze, with screws	1	...	...
Brackets — supporting, upper contact box, metal, with securing pin (in 2 parts), with keep pin and securing screws	1	...	...
Cradle:—			
Band, retaining gun, steel, with metal liners and screws	1	...	...
Box, stuffing, manganese bronze	1	...	1 to 10 or less.
Covers — running out springs, metal	2	...	...
Covers — tank, metal, with screws	1	...	...
Cradle, without fittings, steel, and metal	1	...	...
Crossbar, connecting springs, steel	1	...	...
Cylinder, hydraulic buffer, steel	1	...	...
Gland, piston rod, metal	1	...	1 to 10 or less.
Lubricators, metal	2	...	...
Packing, hydraulic, ½-in. square, hemp woven square, with core (length of 3 feet), lengths	1	...	2 per carriage.
Piston, steel, with rod, nuts, and set screw	1	...	1 to 10 or less.
Plates — inscription, metal, with screws	1	...	...
Plates — instruction ,, ,, ,,	1	...	...
Plugs — air, steel	1	1 per section of defence	25 per cent.
Plugs — filling hole, hydraulic buffer, No. 10, steel, with leather washer, also drain, and screw securing piston rod nut	3	1 per section of defence	25 per cent.
Plunger, controlling, running out, steel, with nut and adjusting plug	1	...	1 to 10 or less.

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* The percentage of spare held in Army Ordnance charge is calculated on the total quantity of spare per district in R.A. charge, and is in addition thereto.

Components and Spare Parts for Carriage, Garrison, Q.F. 6-inch (Mark I)—*continued.*

57
Gen. No.
9910

Components.	No.	Proportion of spare: In R.A. Charge.	Proportion of spare: In A.O. Charge, per District.*
Cradle—*continued*—			
Rings { packing, hydraulic buffer, leather, L section	1	...	2 per carriage.
Rings { securing leather packing, metal	1	...	1 to 10 or less.
Rods, running out, gun, steel, with nuts and split key	2	1 per section of defence ...	25 per cent.
Screw, preserving hole for lifting eye	1	...	...
Springs, running out, steel, in 2 parts, with spring compressor, dividing bushes, and plate for end of spring	2	1 per section of defence ...	25 per cent.
Valve key, metal, with screw	1	...	
Washers, packing, leather (set of 6) ... sets	1	...	2 per carriage.
Lever stop, traversing, steel, with axis pin	1	...	...
Pivot—			
Balls, anti-friction, 1¼-inch, diameter, steel, hardened	14	14 per section of defence ...	25 per cent.
Pivot, without fittings, steel	1	...	...
Plate, supporting, traversing rack, steel, with screws	1	...	...
Platform, sighting, steel, with screws	1	...	...
Screw, stop, depression, steel	1	...	...
Shield, protecting gun layer, brass, with screws	1	...	...
Shields—			
3·25-inch, steel, with 4 rest pins, and 18 securing screws	1	...	...
4-inch†, steel, with 2 rest pins, and 10 securing screws	1	...	...
Shoulderpiece	1	1 per section of defence ...	25 per cent.
Springs, disc, No. 44, steel (screws securing shield)	36	4 per section of defence ...	25 per cent.
Stays, supporting shield { front { left, steel, with screws	1	...	...
Stays, supporting shield { front { right ,, ,,	1	...	...
Stays, supporting shield { rear { left ,, ,,	1	...	...
Stays, supporting shield { rear { right ,, ,,	1	...	...
Stop, traversing, steel, with screws	1	...	...
Studs, stop, traversing lever, steel	2	...	...
Under Carriage—			
Capsquares, metal	2	...	...
Pins, capsquare, steel, with chain and loop	2	2 per carriage	25 per cent.
Plates { ball bearing, steel, with screws	1	...	...
Plates { inscription, metal ,,	1	...	...
Under carriage, without fittings, steel, metal bushed	1	...	...
Gear, elevating—			
Arc, steel	1	...	...
Pinions { bevel, steel, 10 teeth, with spindle	1	1 per section of defence ...	25 per cent.
Pinions { worm wheel, steel, with spindle, friction rings, disc spring, nuts, set screw, and lubricator	1	...	...
Plate, cover, friction rings, steel	1	...	...
Screws, securing arc, steel	2	..	...
Spindle, worm, steel, with set screw	1	1 per section of defence	
Spring, disc, No. 51, steel (pinion, elevating)	...	1 per work ...	25 per cent.
Wheels { bevel, manganese bronze, 20-teeth	1	1 per section of defence	
Wheels { hand, metal	1		
Wheels { worm, manganese bronze	1		
Worm, steel	1		

38107
Equip.
1800

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* *See* footnote * page 562.

† For mountings, Reg. Nos. A. 1642 to 1647.

Components and Spare Parts for Carriage, Garrison, Q.F. 6-inch (Mark I)—*continued.*

Components.	No.	Proportion of spare In R.A. Charge.	 In A.O. Charge, per District.*
Gear, elevation indicator—			
Band driving, P.B.	1	...	1 to 10 or less.
† Drum, aluminium (in 2 parts), with bolts	1	...	...
Quadrant, metal, with band holders, axis pins, tension spring, adjusting screws, spring cases, and taper pin	1	...	...
Spindle, drum, steel, with collars, screw, and nut, with split key	1	...	...
Gear, firing, electric—			
Battery, Le Clanche, 3-cell, in wood box,	1	1 per work ...	...
Boxes, contact: A, metal, with contact, spiral spring, and insulating bush ...	1	...	...
Boxes, contact: B, metal, with contact, insulating bush, and fixing screw	1	...	...
Cables, electric: A, connecting lower contact box (on crossbar) with striker, electric and percussion	1	1 per work ...	25 per cent.
Cables, electric: B, connecting upper contact box (on cradle) with pistol grip	1		
Cables, electric: C, connecting pistol grip with battery	1		
Clips, cable, metal	3	...	...
Pistol, grip, metal, with socket and trigger	1	...	...
Gear, sighting:—			
Bushes, adjusting rocking bar sights: eccentric, steel ...	1	...	...
Bushes, adjusting rocking bar sights: plain ,, ...	1	...	...
Screws, securing sight carrier, steel... ...	2	...	...
Sights, rocking bar, consisting of:—			
Carrier, steel, with worm wheel bracket and 4 fixing screws, worm, and worm spindle with 2 nuts and taper pin, hand wheel pinion spindle with worm wheel and 2 nuts, drum with yard scale ring and 3 securing screws with nuts, flat spring with fixing screw, and reader with fixing screw	1	...	...
Sights: fore, steel, with sighting blade with fixing screw	1	...	...
Sights: hind, steel, with scale plate, with 4 fixing screws, range strip, stop with fixing screw, rocking bar with 4 fixing screws and hinge bolt with nut	1	...	...
Gear, traverse indicator:—			
Band, driving, P.B.	1	...	1 to 10 or less.
Drums: driving, metal, with screw ...	1	...	...
Drums: indicator, aluminium, with spring barrel, spring and bolts	1	...	...
Pulley, guide, metal, with axis pin	1	...	...
Pointer, adjusting, metal, with screw ...	1	...	...
Gear, traversing:—			
Guard, spur, wheel and pinion, metal, with screws	1	...	...
Pinions: hand-wheel, steel with spindle collar	1	...	...
Pinions: rack, steel, spur, 14-teeth, with set screw	2	1 per section of defence ...	25 per cent.

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* See footnote * page 562.

† Demands should state height of gun axis above object plane.

Components and Spare Parts for Carriage, Garrison, Q.F. 6-inch (Mark I)—*continued.*

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Gear, traversing—*continued*—			
Plate, jamming friction rings, metal ...	1	...	...
Rack, manganese bronze, with screws ...	1	...	...
Rings, friction, manganese bronze	3	3 per section of defence	25 per cent.
Rings, friction, steel	4	4 per section of defence	25 per cent.
Shafts, rack pinion, left, steel, with lubricating screw	1	...	...
Shafts, rack pinion, right ,, ,, ,,			
Shafts, rack pinion, collar and nut	1	...	...
Spindle, worm, steel, with lubricating screw, nut, and split key	1	...	...
Wheels—			
Hand, actuating, left, metal with split key	1	...	...
Hand, actuating, right, ,, ,, ,,	1	...	...
Hand, jamming, metal	1	...	...
Spur, manganese bronze, 36-teeth	1	...	...
Worm, metal	1	...	...
Worm, steel	1	...	...

See footnote * page 562.

HOLDFAST, CARRIAGE, PEDESTAL, No. 2 (MARK I).

Designation.	Detail.	No.
Bolts, holding-down	iron, with nut	28
Plates, anchoring	steel	7
Ring, levelling	cast-iron, with screws	1

PEDESTAL, CARRIAGE, No. 2 (MARK I).

Cast-iron, without holdfast .... 1.

SPECIAL IMPLEMENTS FOR CARRIAGE, GARRISON, Q.F. 6-INCH (MARK I).

Drivers, screw, No. 13	*See* Lists at pages 168 to 182.
Eyes, lifting	*See* Lists at pages 168 to 182.
Spanners	*See* Lists at pages 168 to 182.
Wrench, pivot, No. 6	*See* Lists at pages 168 to 182.

CARRIAGE, GARRISON, Q.F. 4·7-INCH, CENTRAL PIVOT, MARK I.

Steel; with shield, ball bearing ring, 3 electric cables, 2 contact boxes and battery box.

Component and Spare Parts.

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
CARRIAGE.			
Axles, roller, manganese bronze, with nut, collar, and split key	18	1 per carriage	...
Bearings, pinion, spindle, elevating, metal, with screws	1	...	...
Brackets elevating gear, metal, with screws	1	...	...
Brackets pinion spindle, bevel, traversing, gear, metal, with bolts ..	1	...	...
Brackets pointer, elevating, arc, metal, with screws	1	...	...
Brackets traversing, worm, metal, with screws	1	...	...
Capsquares, steel	2	...	...
Carriage body, with bottom plate, centre bearing, and upper roller path	1	...	...
Loops, housing bevel pinion, steel, with screws	1	...	...
Lubricators, pivot, plug, metal, with copper pipe and screws	1	...	...
Pins, capsquare, steel, with chain and loop ...	2	2 per carriage	...
Plates clip front steel, with bolts	2	1 per section of defence	25 per cent.
Plates clip rear steel, with bolts	1		
Plates cover lubricating axles, metal, with screws	2	...	...
Plates cover removing rollers, metal, with screws	2	...	...
Plates pivot, steel, with securing bolt, pivot plug, nut, and split key	1	...	...
Rings, roller, steel	1	...	...
Rollers, steel	18	1 per carriage	...
Stops, traversing; steel, with bolts	2		
CRADLE.			
Bands, supporting battery box, steel, with screws	1	...	...
Batteries, Le Clanche, 3-cell, in wood box ...	1	1 per work ...	...
Boxes, stuffing, steel	1	...	1 to 10 or less.
Brackets, sight fore	1	...	1 to 5
Brackets, sight tangent	1	...	1 to 5
Caps, running out, spring, steel	1	1 per section of defence	25 per cent.
Covers, cradle, metal, with screws	1	...	...
Cradles, without fittings, metal	1	...	...
Cylinder, hydraulic buffer, steel	1	...	...
Glands, piston rod, metal	1	...	1 to 10 or less.
Keys, stop, steel, with screw	1	...	...
Loops, securing, steel, with screws	1	...	...
Lubricators large, metal, with screw ...	1	...	...
Lubricators small, " " ...	1	...	...
Packing, cotton, plaited, ½-inch square section (length of 36 inches), lengths ...	1	...	2 per carriage.
Pistons, steel, with rods, nuts, and split key...	1	...	1 to 10 or less.
Plates, instruction, metal...	1	...	...
Plugs tank, metal	1	1 per section of defence	25 per cent.
Plugs air, steel	1		

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* *See* footnote * page 562.

Component and Spare Parts for Carriage, Garrison, Q.F. 4·7-inch, Central Pivot, Mark I—*continued.*

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Plugs drain ; steel	1	1 per section of defence ...	25 per cent.
Plugs filling hole, hydraulic buffer, No. 10 ; steel	1		
Plungers, controlling, running out ; metal ...	1	...	1 to 10 or less.
Rings securing, leather packing, metal ...	1	...	
Rings packings, hydraulic buffer, leather, L section	1	...	2 per carriage.
Rods, running out, gun ; steel	2	1 per section of defence ...	25 per cent.
Shields, protecting gun layer, brass ; with screws	1	...	...
Shoulderpieces, complete	1	1 per section of defence ...	25 per cent.
Springs, running out, steel, with case compressor, plate for end of spring, and bolt compressing spring	1		
Valve keys ; metal, with screw...	1	...	1 to 10 or less.
Washers, packing, hydraulic buffer ; leather (set of 4) ... ... sets†	1	...	2 per carriage.
GEAR, ELEVATING.			
Arcs, steel	1	...	...
Pinions, steel, with spindle, friction rings, collar, disc, spring nuts and split key ...	1	1 per section of defence ...	25 per cent.
Pointers, metal, with collar and stud	1		
Screws, securing, arc, steel	2	...	...
Spindles, worm, steel, with screw	1	1 per section of defence	25 per cent.
Springs, disc, No. 37, steel...	1	1 per work	
Wheels hand ; metal, with handle and split key	1	per section of defence	
Wheels mitre with spindle ; steel, for hand-wheel	1		
Wheels mitre worm spindle steel... ...	1		
Wheels worm, metal	1		
Worms, steel	1		
GEAR, TRAVERSING.			
Pinions, bevel ; metal, with spindle and handle for clamp	1	1 1 per section of defence ...	25 per cent.
Rings, friction ·25 inch thick ; metal	4	4	
Rings, friction ·1875 ,, ,, steel	4	4	

† Packings, Leather.	Diameter, inches.	Diameter of hole, inches.	No. to a set.
Washers, leather—			
Bolt, valve key	1·3	·76	1
Gland, outer	6·59	6·0	1
Plug filling...	1·0	·625	1
Plug tank	3·5	3·0	1

† *See* footnote * page 562.

Component and Spare Parts for Carriage, Garrison, Q.F. 4·7-inch, Central Pivot, Mark I—*continued.*

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
GEAR, TRAVERSING—*continued.*			
Rings, friction, ·375 inch thick, steel	1	1 per section of defence	25 per cent.
Rings, friction, ·5 ,, ,, ,,	1		
Spindles, worm, steel, with collar and keys	1	...	...
Springs, disc, No. 36, steel	1	1 per work ...	25 per cent.
Wheels, bevel, metal	1	...	...
Wheels, hand, metal, with handle and split key	1	...	...
Wheels, worm, metal	1	...	...
Worms, steel	1	...	...
SHIELDS.			
Arcs, tilting lever	1	...	...
Brackets, arc, tilting, lever, with countersunk head screws	1	...	...
Brackets, hinge, roof of shield, left, with countersunk head screws	1	...	...
Brackets, hinge, roof of shield, right, with tilting lever and countersunk head screws	1	...	...
Brackets, hinge, shield outer, left, with countersunk head screws	1	...	...
Brackets, hinge, shield outer, right, with countersunk head screws	1	...	...
Covers, port, shield, inner, steel, sliding, with catchplate and countersunk head screws	1	...	...
Levers, counterweight, left, with counterweight and set screw	1	...	...
Levers, counterweight, right, with counterweight and set screw	1	...	...
Pins, hinge, roof of shield; steel	2	...	...
Pins, loop, securing, tilting lever, steel, with chain and stud	1	...	...
Rollers, friction, counterweight lever, metal	2	...	...
Rollers, guide, shield, inner, steel	4	...	...
Screws, securing, arc, tilting, lever	1	...	...
Shields, inner, steel, with screws	1	...	...
Shields, outer, steel, with hinged roof and screws	1	...	...
Spindles, friction roller, counterweight lever, steel, with nut and split key	2	...	...
Spindles, guide rollers, shield, inner, long steel, with collar and split key	2	...	...
Spindles, guide rollers, shield, inner, short steel	2	...	...

* *See* footnote * page 562.

HOLDFAST, CARRIAGE, PEDESTAL, No. 1 (MARK I).

38407
Equip.
1800

Components.	No.
Bolts, holding-down, steel	14
Bolts, securing	48
Plate, anchoring, steel	1

PEDESTAL, CARRIAGE, No. 1 (MARK I).

Steel, without Holdfast.

SPECIAL IMPLEMENTS.

Spanners, &c. *See* Lists, pages 168 to 182.

CARRIAGE, GARRISON, Q.F. 4·7-INCH, CENTRAL PIVOT (MARK II).

Steel; with shields, ball bearing ring, 3 electric cables, 2 contact boxes, and battery box.

Component and Spare Parts.

57
Ceylon.
1723

Components.	No.	Proportion of spare In R.A. Charge.	Proportion of spare In A.O. Charge, per District.*
CRADLE.			
Bars, guide, steel	2	...	...
Box, stuffing; steel	1	...	1 to 10 or less.
Brackets, supporting, contact box, bronze, with securing pin in 2 parts and keep pin	1	...	...
Brackets, supporting, rocking bar sights; metal, with screws ...	1	...	...
Caps, running out springs; steel	1	1 per section of defence	25 per cent.
Cradle, without fittings; metal	1	...	...
Cylinder, hydraulic buffer; steel... ...	1	...	...
Gland, piston-rod; metal	1	...	1 to 10 or less.
Lubricators large, metal; with screw	1	...	...
Lubricators small, " " "	1	...	...
Packing, cotton, plaited, ½-inch square section, length of 36 inches lengths	1	...	2 per carriage.
Pins hinge, guide bar; steel, with collar	2	...	...
Pins keep " " " " chain and stud	2	...	...
Piston; steel, with rod, nuts, and split key	1	...	1 to 10 or less.
Plates inscription, metal with screws	1	...	...
Plates instruction " " "	1	...	...
Plugs air; steel	1	1 per section of defence	25 per cent.
Plugs drain; steel...	1		
Plugs filling hole, hydraulic buffer, No. 10; steel	1		
Plugs tank, cleaning; metal	1		
Plunger, controlling, running-out, metal	1	...	1 to 10 or less.
Rings packing, hydraulic buffer, leather, L section	1	...	2 per carriage.
Rings securing leather packing, metal	1	...	1 to 10 or less.
Rods, running out, gun, steel	2	1 per section of defence	25 per cent.
Shield, protecting gun layer, brass, with screws	1	...	...
Springs, running out, steel, in 2 parts, with spring compressor, plate for end of spring, and bolt compressing spring	1	1 per section of defence	25 per cent.
Valve key; metal, with screw	1	...	...
Washers, packing; leather (set of 5) sets	1	...	2 per carriage.
PIVOT.			
Band, supporting battery-box, steel, with screws	1	...	...
Brackets elevating gear; metal, with cover and screws ...	1	...	...
Brackets spindle, worm traversing, metal, with screws ...	1	...	...
Brackets carrying gear; steel, with screws	1	...	...
Pivot, comprising—			
Capsquares; steel, with lubricating screw	2	...	...
Pins, capsquare; steel, with chain and stud	2	2 per carriage ...	25 per cent.
Pipe, lubricating, worm bearing, copper, with two brass clips, with screw and lubricating screw	1	...	...
Plate, inscription; metal with screws ...	1	...	...
Pivot, without fittings; steel	1	...	...

* See footnote * page 562.

Components and Spare Parts for Carriage, Garrison, Q.F. 4·7-inch, Central Pivot (Mark II)—*continued*.

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
PIVOT—*continued*.			
Ring, ball bearing; metal, with steel friction ring, 10 balls, plate metal retaining balls, with securing screw, 6 fixing screws, and drain plug	1	...	...
Shoulderpiece, complete	1	1 per section of defence	25 per cent.
Springs, disc, No. 38; steel, for screws of outer shield	20	4 per carriage ...	
Stops, traversing, pedestal: steel, with bolt	2	...	...
Stops, traversing, shield: steel, with screws	1	...	...
Stays, supporting shield, left; steel, with screws	1	...	...
Stays, supporting shield, right " " "	1	...	...
GEAR, ELEVATING.			
Arc; steel	1	...	...
Pinion; steel, with spindle, friction rings, collar, disc spring, nuts and split keys	1	1 per section of defence	25 per cent.
Pointer, metal, with collar and stud ...	1		
Screws, securing, arc; steel	2	...	...
Spindle, worm; steel, with collar	1	1 per section of defence	25 per cent.
Springs, disc, No. 43; steel...	1	1 per work	
Wheels, hand; metal, with handle and split key	1	1 per section of defence	
Wheels, mitre, with spindle; steel, for hand-wheel	1		
Wheels, worm; metal	1		
Worm; steel, with mitre wheel and set screw	1		
GEAR, FIRING, ELECTRIC.			
Battery, Le Clanché, 3-cell, in wood box	1	1 per work	...
Boxes, contact, A; metal, with contact, spiral spring, and insulating bush	1	...	...
Boxes, contact, B; metal, with contact, insulating bush, and fixing screw	1	...	...
Cables, electric, A; connecting upper contact box with striker, electric and percussion ...	1	1 per work ...	25 per cent.
Cables, electric, B; connecting lower contact box with pistol grip... ...	1		
Cables, electric, C; connecting pistol grip with battery...	1		
Pistol grip; metal, with socket, trigger, and firing key...	1	...	...
GEAR, SIGHTING.			
Bushes, adjusting rocking bar sights, eccentric	1	...	...
Bushes, adjusting rocking bar sights, plain...	1	...	...
Screws, securing sight carrier, steel ...	2	...	...
Sights, rocking bar, consisting of—			
Carrier; steel, with worm-wheel bracket and 4 fixing screws, worm, and worm spindle, with 2 nuts, hand wheel, pinion spindle with worm-wheel and 2 nuts, drum with yard scale ring, and 3 securing screws with nuts, flat spring with fixing screw, and reader with fixing screw	1	...	...

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* See footnote * page 562.

Components and Spare Parts for Carriage, Garrison, Q.F. 4·7-inch, Central Pivot (Mark II)—*continued.*

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
GEAR, SIGHTING—*continued.*			
Sights, rocking bar—*continued.*			
Sights { fore; steel, with cross wires ...	1	...	...
Sights { hind; steel, with scale plate, with 4 fixing screws, range strip, stop with fixing screw, rocking bar with 4 securing screws and fore-sight bracket with fixing screw, and hinge bolt with nut	1	...	...
Wire, foresight ... ... yds.	...	1 per work	...
GEAR, TRAVERSING.			
Spindle, traversing, worm; steel, with collar and split keys	1	...	...
Wheels { hand, traversing: metal, with handle and split key ...	1	...	...
Wheels { worm, metal	1	...	...
Worm, traversing; steel	1	...	...
SHIELDS.			
Shields { inner; steel, with 4 fixing screws	1	...	...
Shields { outer; steel, with roof, bolts, and screws	1	...	...

PEDESTAL, CARRIAGE, No. 5 (MARK I).

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Bolts, securing, pedestal; steel	18	...	...
Block, jamming, worm wheel; metal ...	1	...	...
Handle, screw, clamping; steel	1	1 per section of defence	25 per cent.
Pedestal, without fittings	1	...	...
Screw, clamping; steel, with split key ...	1	1 per section of defence	25 per cent.
Springs, disc, No. 39; steel, block jamming	2		
Stops, clamping handle; steel	2	...	...

HOLDFAST, CARRIAGE, PEDESTAL, No. 5 (MARK I).

Components.	No.
Bolts, holding-down	14
Plate, anchoring	1
Ring, base, without fittings	1

SPECIAL IMPLEMENTS.

Spanners, &c. *See* Lists, pages 168 to 182.

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* *See* footnote * page 562.

CARRIAGE, GARRISON, Q.F. 12-PR. (MARK I).

Steel; with shield, 3 electric cables, 2 contact boxes, and battery box.

Component and Spare Parts.

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Bands, supporting battery box; steel, with screws	2	...	...
Brackets, carrying gear; steel, with screws	1	...	...
Brackets, elevating gear; metal, with cover and screws and stud supporting switch box	1	...	...
Brackets, supporting contact box; steel	1	...	...
Brackets, spindle worm traversing, front; metal, with cover, plate and screws	1	...	...
Brackets, spindle worm traversing, rear; metal, with bolts	1	...	...
Cradle—			
Box, stuffing; gunmetal	1	...	1 to 10 or less.
Cap, running out, spring, steel	1	1 per section of defence	25 per cent.
Cradle, without fittings; metal		...	...
Gland, piston-rod; G.M.	1	...	1 to 10 or less.
Lubricator; metal, with screws	1	...	...
Packing cotton, plaited, ⅜-in. square section (lengths of 32-in.) length	1	...	2 per carriage.
Piston; steel, with rod, nut, and split key	1	...	1 to 10 or less.
Plate, inscription; metal, with screws	1	...	...
Plugs, filling hole, hydraulic buffer, No. 10. steel; also air and drain holes	3	1 per section of defence	25 per cent.
Plugs, tank; metal	1		
Plunger, controlling running out, M.B.	1	...	1 to 10 or less.
Rings, packing, hydraulic buffer; leather, L section	1	...	2 per carriage.
Rings, securing leather packing; G.M.	1	...	1 to 10 or less.
Rods, running out, gun; steel	2	1 per section of defence	25 per cent.
Springs, running out; steel (in 2 parts), with spring compressor, dividing bush, plate for end of spring, and bolt compressing spring	1		
Valve key; G.M., with screw	1	...	...
Washers, packing, hydraulic buffer; leather (set of 6) sets	1	...	2 per carriage.
Pivot—			
Capsquares; steel	2	...	...
Pins, capsquare; steel, with chain and loop	2	2 per carriage ...	25 per cent.
Pivot, without fittings; steel	1	...	...
Plate, inscription; metal, with screws	1	...	...
Shield, protecting gun layer, metal, with screws	1	...	...
Shield—			
Arc, tilting, lever, steel	1	...	...
Brackets, arc, tilting, lever, steel, with screws	1	...	...
Brackets, hinge, roof of shield, left, steel, with screws	1	...	...
Brackets, hinge, roof of shield, right, steel, with tilting lever and screws	1	...	...
Brackets, hinge, shield, left, steel, with screws	1	...	...
Brackets, hinge, shield, right, steel, with screws	1	...	...

* *See* footnote * page 562.

Components and Spare Parts for Carriage, Garrison, Q.F. 12-pr. (Mark I)—*continued.*

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Shield—*continued.*			
Pins { hinge, roofof shield, steel ...	2	...	...
Pins { loop, securing, tilting lever, steel, with chain and plug ...	1	...	...
Shield, without fittings, steel	1	...	...
Shoulderpiece, with hook supporting lead and stud supporting switch box... ...	1	1 per section of defence	25 per cent.
Springs, disc, No. 38; steel, screws, securing shield	20	4 per carriage	
Stays supporting shield { left; steel, with screws	1	...	...
Stays supporting shield { right „ „ „	1	...	...
Gear, elevating—			
Arc, steel	1	...	...
Pinion; steel, with spindle, friction rings, collar, disc spring, nuts, and split keys	1	1 per section of defence	25 per cent.
Pointer, metal, with collar and screw ...	1		
Screws, securing, arc, steel	2	...	...
Spindle, worm, steel, with collar ...	1	1 per section of defence	25 per cent.
Springs, disc, No. 37, steel (pinion spindle)...	—	1 per work ...	
Wheels { hand, metal, with handle and split key	1	1 per section of defence	
Wheels { mitre, steel, with spindle, for hand wheel	1		
Wheels { worm, metal	1		
Worm, steel, with mitre wheel and set screw	1		
Gear, firing, electric—			
Battery, Le Clanché, 3-cell; in wood box	1	1 per work ...	...
Boxes, contact { A, metal, with contact, spiral spring, and insulating bush	1	...	...
Boxes, contact { B, metal, with contact, insulating bush, and fixing screw	1	...	...
Cables, electric { A, connecting upper contact box with striker, electric and percussion	1	1 per work ...	25 per cent.
Cables, electric { B, connecting lower contact box with pistol grip... ...	1		
Cables, electric { C, connecting pistol grip with battery	1		
Pistol, grip, metal, with trigger and firing key	1	...	...
Gear, sighting—			
Bushes, adjusting, rocking bar sights { eccentric, steel	1	...	...
Bushes, adjusting, rocking bar sights { plain, steel ...	1	...	...
Screws, securing sight carrier, steel ...	2	...	...
Sights, rocking bar, consisting of:— Carrier, steel, with worm wheel bracket, and 4 fixing screws, worm, and worm spindle, with 2 nuts and taper pin, handwheel; pinion spindle, with worm wheel and 2 nuts, drum with yard scale ring, and 3 securing screws with nuts; flat spring with fixing screw, and reader with fixing screw	1	...	...

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* *See* footnote * page 562.

Components and Spare Parts for Carriage, Garrison, Q.F. 12-pr. (Mark I)—*continued.*

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Gear, sighting—*continued.*			
Sights, fore, steel, with cross-wires ...	1	...	...
Sights, hind, steel, with scale plate with 4 fixing screws, range strip, stop with fixing screw, hinge bolt with nut, and fixing screw for foresight ...	1	...	...
Wire, foresight, aluminium ... yds.	...	1 per work	...
Gear, traversing—			
Spindle, worm, steel, with collar, nut, and split key	1		
Wheels, hand, metal, with split key ...	1		
Wheels, worm, M.B.	1		
Worm, steel	1		

PEDESTAL, CARRIAGE, No. 6 (MARK I).

Components.	No.	Proportion of spare	
		In R.A. Charge.	In A.O. Charge, per District.*
Block, jamming, metal	1	...	...
Handle, clamping, screw, steel	1	1 per section of defence	25 per cent.
Pedestal, without fittings, steel	1	...	...
Plate, instruction, metal, with screws ...	1	...	...
Screws, clamping, steel, with distance nut and split key	1	1 per section of defence	25 per cent.
Screws, holding-down, steel	18	...	...
Screws, securing pivot, steel	1	...	...
Springs, disc, No. 39, steel, block jamming	2	1 per section of defence	25 per cent.
Tube, lubricating, copper, with metal nut	1	...	...

HOLDFAST, CARRIAGE, PEDESTAL, No. 6 (MARK I).

Components.	No.
Bolts, holding-down, steel	6
Plates, anchoring, steel	1
Plates, base, steel	1

SPECIAL IMPLEMENTS.

Spanners, &c. *See* List at pages 168 to 182.

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* *See* footnote * page 562.

SPARE STORES ALLOWED FOR WORKING GUNS WHICH FORM THE ARMAMENT OF DISTRICTS, AND FOR MAGAZINES.

Articles.	Proportion.	Remarks.	
Woolwich Section, No. 7.			
Mallets, tinman's	1 per shell store	For removing rope grummets from projectiles having driving band with gas check.	57 Gen. No. 7479
Woolwich Section, No. 10.			
Jacks, lifting, hydraulic, G.S. ...	Not exceeding 4 per district.	General purposes.	
Woolwich Section, No. 11.			
Glycerine ... ... lb.	10 per cent.	For hydraulic pivots of B.L. barbette mountings.	
Methylated spirits ... ... gals.	10 per cent.*†	For disappearing carriages.	
Oil, mineral ... ... ,,	10 per cent.*†	Mountings and hydraulic buffers.	
Soda, carbonate, dry ... grains	10 per cent.*†	For disappearing carriages.	
Water, distilled ... ... gals.	10 per cent.*†	For disappearing carriages.	
Woolwich Section, No. 14.			
Connections, indicator, pressure, metal	1 per work of 10 guns or less	For connecting indicator with recoil cylinder, B.L., 10-in. and 9·2-in. Mark I, and 6-in. Marks I to IV, disappearing carriages.	57 H. Kong 9791
Hand-spikes common	15 per cent.	For all natures of guns.	
Hand-spikes metal roller, 7-ft., L.S. ...	10 per cent.		
Hand-spikes wood roller, 6-ft.	10 per cent.		
Levers, pointed	5 per district	For R.M.L. guns.	
Pins, pivot, band, elevating, with collar and key	2 per work of 10 guns or less	For elevating bands.	
Swingletrees, No. 1.	1 per limber	B.L. 4-inch and 5-inch travelling, R.B.L. 40-pr., R.M.L., 40-pr., 8-inch and 6·3-inch howitzer, and 6·6-inch gun or howitzer.	57 Gen. No. 7095
Washers, packing, connections, indicator, pressure (leather), set of 4 ... ... sets	2 per disappearing carriage	B.L., 10-in. and 9·2-in. Mark I, and 6-in. Marks I to IV.	57 H. Kong 9791
Woolwich Section, No. 16.			
Vent servers	10 per cent.	All natures of R.M.L. except axial-vented, and 9-in. on H.A. carriages.	
Woolwich Section, No. 18.			
Bags, extractor, projectile	1 per extractor	R.M.L. ordnance.	
Blocks loading tackle	5 per cent.	R.M.L. guns.	
Blocks wood, Bothway, single, 8-in.	5 per cent.	For guns in emplacements with sunken ways and loading stages.	
Brushes, piasaba, B.L., bore ...	1 per battery	For cleaning bore.	
Extractors, projectile	2 per district	R.M.L. guns.	
Heads rammer, R.M.L.	1 per 2 guns.	7-in. and over, except 10·4-in.	57 D'port. 5359
Heads rammer and sponge ...	1 per 10·4-in. R.M.L.		
Heads sponge, R.M.L.	2 per gun.	7-in. and over, except 10·4-in.	

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* To be kept mixed in casks ready for use in Royal Artillery charge. In addition to this the chief ordnance officer will maintain a reserve of the various ingredients equal to 10 per cent., for 10-in. disappearing carriages (E and A), Mark II 20 per cent., required by the Royal Artillery for filling H.P. cylinders and hydraulic buffers.

† For 10-in. disappearing carriages (E and A), Mark II, 20 per cent. is allowed.

Spare Stores allowed for working Guns which form the Armament of Districts, and for Magazines—*continued.*

	Articles.	Proportion.	Remarks.
	Woolwich Section, No. 18—cont.		
	Pulley, blocks, differential, 1-ton ...	1 per battery 10·4-in. R.M.L. gun	For use with wash-out apparatus.
	Rammers	1 per gun	For B.L., R.B.L., and R.M.L. guns.
	Ropes, guide, rammer	20 per cent.	For R.M.L. guns 9-in. and upwards.
	Scrapers, ordnance, B.L., 6-in. to 13·5-in.	1 per 5 or less number of guns	6-in. to 12-in. B.L.
	Solvagees, projectile	5 per cent.	B.L. 8-in. and upwards, and R.M.L. 9-in. and over.
	Sponges R.B.L.	1 per gun	7-in. to 20-pr.
	Sponges R.M.L.	1 per gun	All natures except 10·4-inch.
33407 Equipment 1683	**Staves,** end, B.L.	1 per work	B.L. 6-in. and upwards.
	Tackles gun, 3-in. white rope ...	1 per work	If required.
	Tackles loading derricks ... shields ...	1 per sub-district	Where required.
57 I. of Wight 1606	**Tampeons** muzzle	1 to 6 guns or less	For all natures of B.L., R.B.L. and R.M.L. guns.
	Tampeons breech		For all natures of R.B.L. guns
57 I. of Wight 1607	*Woolwich Section, No.* 22.		
57 D'port. 7385	**Batteries** and keys, test and firing	1 per work, for all guns using them	For firing purposes.
	Boxes, tube, garrison	10 per cent.	R.M.L. and R.B.L. guns.
	Caps, lead, Armstrong base percussion fuze, 4·7-in. Q.F.*	As required	For replacing any caps that may be found damaged at inspection.
	Fuzes, time, wood	10 per cent.	For all natures of ordnance using wood time fuzes.
	Lanterns, hand, magazine	1 per sub-district	Magazines.
	Tubes friction, copper, solid drawn	10 per cent.	All natures except B.L., R.M.L. axial-vented, and 9-inch. Mark II.
	Tubes vent sealing electric, P. ...	10 per cent.	All B.L. guns and R.M.L., 10·4-in, and 9-in. Mark VI.
	Tubes vent sealing percussion ...	10 per cent.	All B.L. guns.
	Tubes vent sealing electric, V. ... friction, V. ...	10 per cent. 10 per cent.	For R.M.L. 12·5-inch, Mark II.
	Woolwich Section, No. 24.		
	Bottoms, shell conical ... cylindrical ... hemispherical ...	10 per cent.	For S.B. guns.
57 Gen. No. 7479	**Drivers,** grummet	1 per shell store	For removing rope grummets from projectiles having driving band with gas check — To be provided locally.
	Wads fuze hole, G.S.	25 per cent.	Common shells, R.B.L. and R.M.L.
	Wads loading hole, diaphragm...	5 per cent.	S.B. ordnance.

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* Will not be required on the introduction of the "fuze, percussion, base, medium, No. 12."

Spare Stores allowed for working Guns which form the Armament of Districts, and for Magazines—*continued.*

Articles.	Proportion.	Remarks.
Woolwich Section, No. 25.		
Lamps, magazine	1 to 20 lamps, or less number in a work	Magazines.
Woolwich Section, No. 28.		
Batteries, Le Clanché, firing, cells	1 cell per 3 batteries, or less in a district	For batteries used for illuminating cross-wires of Depression Range Finders and Position Finders.
Cable, electric, D* 9 ... ... 10	Sufficient for 1 spare lead per gun.	For guns fired by P.F.
Lamps, electric, telescope	1 per P.F. or D.R.F., where the electric light is installed.	
Lamps, electric, telescope, leads, flexible, double strand, 2½ yards ...	1 per D.R.F.	

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Dover
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* With garrison disappearing and barbette mountings, cable electric D No. 9 will be used between plug box and firing key, and No. 10 between firing key and gun. For other services the No. 10 cable will be used between plug box and gun.

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List of Spare Parts for Pump, Air, Double, Carriage, Garrison, Disappearing.

Spare Parts.	Proportion.	Remarks.
Keys, wrought-iron, split, round, loop head, plunger, large ⅛″ × ¾″	2 per pump.	
Keys, wrought-iron, split, round, loop head, pin, lever, rocking 0·2″ × 1¼″	1	
Levers, iron socket (complete)...	1 per work.	
Levers, steel, rocking	1	
Plungers,† small, M.B.	1 per pum	
Pins, steel, with collar and split key, lever, rocking ...	1	
Pins, steel, with collar and split key, rod, connecting, plunger, upper...	1	
Pins, steel, with collar and split key, rod, connecting, lever, socket ...	1	
Pipes, copper, delivery, with couplings	1	
Springs, P.B. suction valve, air...	1	
Springs, P.B. suction valve, water	1	
Valves, metal, delivery, large ...	1 per pump.	
Valves, metal, delivery, small...	1	
Valves, metal, suction, air ...	1	
Valves, metal, suction, water ..	1	
Packing, leather, set of 19 sets	2 per pump.	

3810[illegible]
Equip.
1[illegible]

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† These articles must not be demanded for pumps which have had their cylinders enlarged through wear. The enlarged cylinder will be known by the word "large" being stamped on the plunger.

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List of Spare Parts for Pump, Air, Double Carriage, Garrison, Disappearing—*continued.*

Spare Parts.	Diameters.		Depth.	Thickness.	No. to a Set.	Remarks.
	Outer	Of hole.				
In tin case consisting of—	ins.	ins.	ins.	ins.		
Rings, leather, L section, plunger* – large ...	3¾	...	·7	·187	2	
Rings, leather, L section, plunger* – small ...	1⅜	·65	·5	·187	2	
Washers, leather – cover, delivery valve	1¾	1⅛	...	·187	2	
Washers, leather – cover, connection pipes, connecting	¾	...	...	·187	1	
Washers, leather – plug guide, water suction valve ...	2⅛	1¾	...	·187	2	
Washers, leather – pipes, copper – delivery ...	¾	5/16	...	·187	4	
Washers, leather – pipes, copper – connecting	¾	5/16	...	·187	6	
			Total	...	19	

* *See* footnote †, page 577.

LIST OF SPARE PARTS FOR PUMP, AIR OR LIQUID.

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Spare Parts.	Proportions.	Remarks.
Adapters, B	1 per pump.	
Pipes, connecting	½ per pump.	
Valves, suction	2 per pump.	
,, intermediate	2 per pump.	
,, delivery	4 per pump.	
Seatings, valve, intermediate ...	2 per pump.	
Packings, leather, set of 22 sets	1 per pump.	

Spare Parts.	Diameters.		Depth.	Thickness.	No. to a set.	Remarks.
	Outer	Of hole.				
Consisting of :—	ins.	ins.	ins.	ins.		
Rings, Leather, L section, plunger – small ...	1·5	·665	·75	·187	2	
Rings, Leather, L section, plunger – large ...	4·379	3·0	·625	·187	2	
Rings, Leather, L section, plunger – outer ...	6·5	4·75	·687	·187	2	
Washers, leather – pipes, connecting...	·937	·59	...	·125	6	
Washers, leather – adapter, A	·942	·625	...	·125	1	
Washers, leather – ,, B	·72	·25	...	·125	1	
Washers, leather – union pipe discharge	·942	·625	...	·125	2	
Washers, leather – seating valve, intermediate	1·75	1·505	...	·125	2	
Washers, leather – screw holding-down plunger	1·625	1·375	...	·125	2	
Washers, leather – screw holding-down plunger	1·875	1·625	...	·125	2	
			Total	...	22	

LIST OF SPARE PARTS FOR PUMP, AIR, R.M.L., 6·6-IN. GUN.

Spare parts.	Proportions.	Remarks.
Keys, wrought iron, split, round loop, head, $\frac{3}{16}$-in.... ...	2 per pump.	
Keys, wrought iron, split, round loop, head, $\frac{2}{16}$-in.... ...	1	
Levers, rocking	1	
Levers, socket, complete	1	
Pins, steel, with collar and split key, lever, rocking...	1	
Pins, steel, with collar and split key, rod, connecting plunger, upper	1	
Pins, steel, with collar and split key, rod, connecting plunger, lower, large ...	1	
Pins, steel, with collar and split key, rod, connecting plunger, lower, small ...	1	
Pipes, copper, delivery, with couplings...	1	
Plunger, small, M.B.	1	
Valves, metal, delivery, large	1	
Valves, metal, delivery, small	1	
Valves, metal, suction, air	1	
Packings, leather (set of 5) ... sets	2	
Consisting of:—		
Rings, leather, L section, plunger, large	1	
Rings, leather, L section, plunger, small	1	
Washers, leather	3	

LIST OF STORES USED IN CONNECTION WITH POSITION-FINDING.

Designation.	Detail.	Spare per 10 or less number of instruments, per District.
Apparatus, position-finding:—		
Attachment, horizontal (Marks I, II)	With iron bracket, arc, pointer, tape, upper and lower mirrors	...
Arc, brass...	... ...	...
Bracket, angle	Not with Mark I. Screwed to iron bracket, to hold brass frame	...
,, brass	With Mark I only. With axis. Screwed to iron bracket, to hold brass frame and brass case	...
,, iron	With two or more collets and bolts to fix the bridge of position-finder	...
Case, brass	With arbor for upper mirror. Containing electrical mechanism.	...
Frame, brass	In Mark I pivotted on axis of brass bracket (in Mark II pivotted between angle bracket; to hold drum, lower mirror, and pointer	...
Mirror, upper	Fixed to arbor of brass case ...	...
Tape, steel	Coiled round drum	...
Board, terminal, A	For top of dial box A...	...
,, ,, B	,, left side of dial box A	...
,, ,, C	,, right side of single-needle dial	...
,, ,, D	,, left ,, ,, ...	...
,, ,, E	,, gun arm leads	...
,, ,, F (Mark I) ...	,, horizontal attachment Mark I, and horizontal transmitter Mark I	...

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List of Stores used in connection with Position-finding—*continued.*

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Designation.	Detail.	Spare per 10 or less number of instruments, per District.
Apparatus, position-finding—*con.*		
Board, terminal, F (Mark II)	For horizontal attachment Mark II, and horizontal transmitter Mark II	...
Box, dial A (Mark I)	With switch and relay; for electric range dial A, and electric training dial A, Mark I	...
,, ,, ,, (Mark II)	With switch and relay; for electric range dial A, and electric training dial A, Marks II and III	1
,, ,, B	With switch and relay, and two contact makers; for dial, electric range, B, and dial, electric training, B	...
Cover, position-finder (Mark I)	Linen, without tapes. For position finders, A, B, C, D, Mark I	...
,, ,, ,, (Mark II)	Linen, with tapes. For position-finders, A, B, C, D, Mark II, and D, Mark IIA	...
Dial, electric range, A (Marks I, II, III)	With one hand	1 Mark III
Bezel	To hold glass face	...
Face, brass	With scale shewing yards	...
Dial, electric range, B	Double action, with two hands	...
Bezel	To hold glass face	...
Face, brass	With scale shewing yards	...
Dial, electric training, A (Mark I)	Small, with one hand	...
Dial, electric training, A (Marks II, III)	Large, with one hand, to show 180 degrees	1
Bezel	To hold glass face	...
Face, brass	With scale shewing degrees	...
Dial, electric training, B	Double action, with two hands	...
Bezel	To hold glass face	...
Face, brass	With scale shewing degrees	...
Dial, single needle	With firing knob	1
Gear, elevating, transmitting	With chain and cam	...
,, training, ,,	With cogwheel	...
Plug, firing, safety	With firing plug, board, and cover	1
Board	With two brass binding screws, upper and lower plug sockets	...
Cover	With two hinges, brasscatch, and hinge piece	...
Eye, brass	Screwed to board; for brass catch of cover	...
Hook	On brass plate; screwed to board	...
Plug, firing	With ebonite handle	...
Position-finder, A. (Mark I)	3 arm } gun arm reading less than 8,000 yards	...
,, ,, A. (Mark II)	2 arm }	...
,, ,, B. (Mark I)	3 arm } gun arm reading 8,000 but not 10,000 yards	...
,, ,, B. (Mark II)	2 arm }	...
,, ,, C. (Mark I)	3 arm } gun arm reading 10,000 yards	...
,, ,, C. (Mark II)	2 arm }	...
Arc, brass	Screwed to bedplate or bedplate board	...
Arm, gun	With slider, two or more handles, leads, leather cover for leads, correcting finger, and pencil holder	...
Cover, leads, leather		
Finger, correcting		
Holder, pencil		
Arm, horizontal	With screw pivot fixed to gun arm slider. To hold porcelain reflector. Only issued when position-finder is used as a depression horizontal receiver	...

List of Stores used in connection with Position-finding—*continued.*

Designation.	Detail.	Spare per 10 or less number of instruments, per District.
Apparatus, position-finding—*contd.*		
Position-finder—*contd.*		
Arm, telescope	To fit on height screw; with Y screws, two clips, and two keys for clips	...
Balance, overhead	Not used with position-finder, A, B, C, Mark I	...
(Mark I)	Consisting of arm, weight, hook, and pivot	...
(Mark II)	Consisting of jar, shot, rod with 3 pieces of wire, iron bar with 2 hooks, 2 nuts and 2 washers, pulley with plate and eye, and one or more fixed wheels	...
Bedplate	With three levelling screws, and three shoes for levelling screws	...
Block, layflap	Wood	...
Board, bedplate	Screwed to bedplate	...
Bracket, gunmetal	For training stop	...
,, telescope, arm	Iron or brass, with bolts and collets to fix to iron bridge	...
Bridge, iron	In one or three parts, with bolts to fix to bedplate	...
Bubble, body	With glass cover, brass frame, and four capstan screws; two to a position-finder	...
Cover, glass	Size to be stated on demands.	
Screw, capstan		
Layflap	...	1
Pivot, gun arm	With one or more bolts to fix to bedplate	...
,, telescope arm	Brass, for height screw; with two or more bolts or screws to fix to telescope arm bracket. In some position-finders in one casting with telescope arm bracket	...
Reflector, porcelain	To fix on horizontal arm; only issued when position-finder is used as depression horizontal receiver	...
Screw, height	Fitted to telescope arm pivot; with milled-edge ring, height screw drum, and height screw drum skin	...
Skin, drum		
Telescope	With bubble, cap, day and night eye-piece	1
Bubble	With two capstan screws	...
Screw, capstan		
Cap		
Eyepiece, day		
,, night		
Position-finder, D. (Mark I)	C.O. scale 300 yards to one inch	...
,, ,, D. (Mark II)	,, ,, 3 inches to one mile	...
Balance, overhead	Not with Mark I. Consisting of jar, shot, rod with two pieces of wire, pulley with plate and eye, and fixed wheel	...
Bedplate	With three levelling screws, and three shoes for levelling screws	...
Board, bedplate	Screwed to bedplate	...
Bubble, body	With glass cover, brass frame, and four capstan screws; two to a position-finder	

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List of Stores used in connection with Position-finding—*continued.*

	Designation.	Detail.	Spare per 10 or less number of instruments, per District.
	Apparatus, position-finding—*contd.*		
	Position-finder—*contd.*		
	Cover, glass	Size to be stated on demands	...
	Screw, capstan		
	Holder, pencil		
	Telescope	With bubble, cap, day and night eye-piece (no night eyepiece with Mark I).	...
	Bubble	With two capstan screws	...
	Screw, capstan		
	Cap		
	Eyepiece, day		
	,, night	Not with Mark I	...
	Rack, gunmetal	With feet to fix to floor	...
	Relay, horizontal	For horizontal attachment Mark II	...
	Scale, predicting, A.	For position-finders of scale 300 yards to one inch, used with R.M.L. guns	...
	,, ,, B.	For position-finders of scale 300 yards to one inch, used with B.L. guns	...
	,, ,, C.	For position-finders of scale 330 yards to one inch, used with R.M.L. guns	...
	,, ,, D.	For position-finders of scale 330 yards to one inch, used with B.L. guns	...
	,, ,, E.	For position-finders of scale 330 yards to one inch, used with 9-inch R.M.L. guns Mark VI.	...
	Switch, electric, B.	For dial circuit	...
	Transmitter, horizontal (Marks I, II)	With telescope	...
	Arc, brass		
	Plate, brass		
	Telescope	With cap day and night eyepiece. (No night eyepiece with Mark II)	...
	Cap		
	Eyepiece, day		
	,, night	Not with Mark II	...
57	**Box,** battery, A.	For six large Le Clanché cells	...
	,, ,, B.	,, three ,, ,, ,,	...
Gen. No.	**Cable,** electric, D. No. 10	,, leads of B.L. and R.M.L. guns	...
7484	**Cell,** Le Clanché, large	Twelve block agglomerate	5
	Band, indiarubber	Four to a cell	...
	Block, agglomerate	Twelve to a cell	...
	Jar	Earthenware	...
	Nut, milled-headed, round	Number 0. B.A. thread	...
	Plate, zinc	With copper strip	...
	Stick, carbon	With lead top, and screw	...
	Wrapping, canvas	Two feet 6 inches, by one foot one inch	...
	Dial, mechanical, A.	For artificers	...
	Lamp, electric, telescope:—		
	Lamp, 4-volt	With two brass terminals in ebonite socket. For telescope of position-finder, depression range-finder, and apparatus observation of fire instrument	3
	Switch and resistance coil (Mark II)	For position-finder, depression range-finder, and apparatus observation of fire instrument	1
	Wire, cotton-covered	For connection between switch and resistance coil and lamp terminals. For position-finders	...

List of Stores used in connection with Position-finding—*continued.*

Designation.	Detail	Spare per 10 or less number of instruments per District.	
Screw. brass, binding	For electrical purposes	5	
Collet, round, upper	0·5 inch in diameter	...	
,, ,, lower	0·6 ,, ,, ...	...	
Nut, hexagonal	Number 2, B.A. thread	...	
,, mill-headed, round... ...	,, ,, ,, ...	...	
Screw, 1·75-inch	,, ,, ,, ...	...	
Telephone, Ader, small :—			
Bell, electric, alarum	... ...	1	
Board, terminal, G.	For transmitter and cable leads ...	...	
Cord, receiver (Marks I, II) ...	One cord to a receiver	2	
Catch-piece	With two number 8 B.A. screws. Not with Mark I.	...	
Receiver	Two receivers to a transmitter ...	2	
Switch, electric, A.	For use with two telephones, when it is required to temporarily cut them out of the circuit	...	84 W. 4164
Transmitter (Marks I, II) ...	... ...	1	
Disc, indiarubber	Three to a transmitter	3	
Washer	,, ,, ,, For fixing screws	...	57 Gen. No. 3066
Terminal. brass	For negative pole of batteries of large Le Clanché's cells	...	
Nut, mill-headed, round... ...	Number 2 B.A. thread. Three to a brass terminal	...	

N.B.—When demanding stores to complete or to replace unserviceable, the exact description of position-finder for which the stores are required will invariably be quoted, and care will be taken that only the stores suitable for that particular instrument are demanded. When any parts of position-finders or dials are sent for repair, the number of the instrument will always be given.

SPARE PARTS OF DEPRESSION RANGE-FINDERS.

Spare Parts.	Proportions.	Remarks.
Diaphragms...	1 per instrument ...	For local repairs by Instructor in Range-Finding or Inspector of Position-Finding.
Lamps. electric	1 ,, ,, ...	
Lock nuts for bubbles	4 ,, ,, ...	
Pins. adjusting	1 ,, ,, ...	
Screws. binding nuts, for switch and resistance coils	2 ,, ,, ...	

3.—STAFF, AND SERVICE AND DEPOT COMPANIES.

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The Establishments of Garrison Artillery are published from time to time in Army Orders; and, being subject to change, they are not inserted in these Tables. 40116 / 5683a

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Arms.*

TABLE 1.	Proportions. (Peace and War.)	
Weedon Section.		
Carbines — M.M., Artillery, Mark III. §	1 per company staff serjeant, serjeant, and rank and file.	
Carbines — M.H., Morris tube	2 per company for aiming tubes (peace only).	
Sword-bayonets — patt. '88 §	1 per company staff serjeant, serjeant, and rank and file, and 1 spare per company.	
Sword-bayonets — M.H. carbine	1 per trumpeter.	
Scabbards, sword-bayonet — patt. '88§	1 per sword-bayonet, patt. '88.	54 / 1,43
Scabbards, sword-bayonet — M.H. carbine	1 per trumpeter's sword-bayonet.	
Pull-throughs — §	1 per carbine, and 5 per cent. spare per company.	93 / 38407
Pull-throughs — double	10 (with 2 spare gauzes to each per 100 carbines).	Equip. / 1931
Reflectors, mirror†	3 per company.	
Rods, clearing carbines, B	1 per carbine.	A.O. 17 / 1896
Swords, staff serjeants, patt. '89, iron hilt	1 per serjeant major, quartermaster serjeant, serjeant instructor of gunnery, orderly room serjeant, serjeant trumpeter, serjeant cook, canteen serjeant, and serjeant master tailor.	
Scabbards, sword, staff serjeants, patt. '89	1 per staff serjeant's sword.	
Tubes, aiming ·23-inch — M.H. Carbine— *Appurtenances.* brushes, cleaning keys, M.H. rods, cleaning sights, fore, false, M.H. carbine	2 per company of Garrison Artillery. For Service and Depôt Companies. (Peace only.)	

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* Serjeant clerks to lieutenant-colonels will be armed and accoutred as serjeants of the company to which they are attached.

† For examining interior of barrels.

§ 50 are allowed to each Depôt of Garrison Artillery for the use of recruits. 54 / Arty. / 5692

N.B.—Issues of D.P. carbines, with pull-throughs, sword-bayonets and scabbards, will be made for drill purposes to Royal Artillery Depôts on the authority of the General Officer Commanding, and according to local requirements.

Materials for Repair, Browning, and Cleaning of Arms.

(As detailed in Appendix VIII., Part 1.)

N.B.—Materials for repair and browning of arms are drawn by the depôt companies, except at stations where there are no depôt companies, in which case they are drawn by the Officer Commanding Royal Artillery in the district. *See* paragraph 8, Part 2.

Ammunition.

TABLE 2.	Proportions. (Peace and War.)
Gun.	
Rounds, for practice	*See* paragraphs 99 to 135.
Small-arm.	
Cartridges, small-arm, ball, ·303-inch, cordite	20 rounds per carbine * peace, and for war 40 rounds per carbine in addition are held by Army Ordnance Department in the district in which the company mobilizes.

* For practice ammunition see Section VII, Part 1.

Accoutrements.*

	TABLE 3.	Proportions. (Peace and War.)
	Woolwich Section, No. 1.	
	Belts† pouch, buff, G.S.	1 per rank receiving staff serjeants' swords.
	Belts† waist, warrant officers', Artillery	
	Bottles water, enamelled, L.S.	All ranks.
54 1/43 93	**Bottles** zinc, oil...	1 per carbine and 5 per cent. spare.
	Frogs, buff, bayonet, G.S.	1 per non-commissioned officer and man, except staff serjeant.
	Knots, sword, buff, G.S.	1 per staff serjeant's sword.
	Pouches, writing materials, Artillery ...	1 per warrant officer and staff serjeant.
	Sling, carbine, buff, Artillery	1 per carbine.
	Straps, buff, water bottle	1 per water bottle.
	Valise Equipment, Buff.	
	Pattern '88—	
	Belts, waist, G.S.	1 per company staff serjeant, serjeant, rank and file, trumpeter, and 1 spare per company.
	Braces left	1 pair per valise.
	Braces right	
	Pouches, ammunition, ·303-in., 40 rounds‡	1 per company staff serjeant, serjeant, and rank and file, and 1 spare per company.
	Straps great-coat	2 per valise, and 1 per rank receiving staff serjeant's sword.
	Straps mess tin	1 per valise.
54 Artv. 7152	Valises, G.S.	All ranks, except those receiving staff serjeants' swords.

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* 50 complete sets of buff, V.E., patt. '88, and 60 belts, waist, G.S., in addition, are allowed to each Depôt of Garrison Artillery for use of recruits.

... 7337 † White enamelled belts will continue in use until worn out.

... 7554 ‡ Pouch, ammunition, buff, Garrison Artillery, Mark I, V.E., patt. '82, may be issued in lieu.

Articles for the Repair of Accoutrements (Peace only).

TABLE 4.

Annual Supply.			Per Company.	
			Service.	Depôt.
Billets, pouch, buff			3	4
Buckles	brass	brace, doubled, barred	12	16
		chapes, brace, double, 1-in.	12	16
		frog	2	3
		waistbelt $1\frac{3}{4}$-in.	2	3
		waistbelt 1-in.	2	3
		waistbelt $\frac{7}{8}$-in.	2	3
		coat-strap, double, $\frac{3}{4}$-in.	2	3
		mess-tin strap, single roller, $\frac{3}{4}$-in.	2	3
	iron, valise, $\frac{3}{4}$-in.		36	44
Buttons, leather, sling, buff			2	3
Chains, with end rings			*	*
Chapes	valise, black, $7\frac{1}{2}$-in. by $\frac{3}{4}$-in.		12	16
	brace, buff		4	6
Corks			†	†
Covers, water bottles, enamelled			†	†
Loops	brass	brace, $1\frac{3}{8}$-in.	3	4
		pouch, $1\frac{1}{8}$-in.	3	4
		waistbelt, $1\frac{3}{4}$-in.	3	4
	leather, buff	pouch, $5\frac{1}{4}$-in. by 1-in.	12	16
		mess-tin strap, $2\frac{1}{2}$-in. by $\frac{5}{8}$-in.	12	16
		sling, $5\frac{1}{2}$-in. by $\frac{3}{4}$-in.	39	48
Patches, leather, buff	brace		12	16
	pouch, $1\frac{1}{16}$-in. by $1\frac{1}{8}$-in.		12	16
Rivets, copper-tinned, with washers	$\frac{3}{8}$-in. by 7 W.G.		39	48
	$\frac{3}{8}$-in. by 12 W.G.		39	48
	$\frac{1}{2}$-in. by 10 W.G.		39	48
	valise round heads		24	32
Runners, leather, buff	brace		12	16
	waistbelt		12	16
Safes, leather, buff, waistbelt			4	6
Studs, brass, pouch			12	16
Straps	shoulder, buff		4	6
	valise, black, 13-in. by $\frac{3}{4}$-in.		10	13
	frog, G.S.		3	4

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...
...
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Cavalry
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* A number equal to 3 per cent. of the water bottles in possession. For repair of bottles, water, enamelled.

† A number equal to 5 per cent. of the water bottles in possession. For repair of bottles, water, enamelled.

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Gen. No.
7420
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Cavalry
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Signalling Equipment.

(Peace and War.)
(*Referred to in paragraph* 250, *Part* 1.)

TABLE 5.		Per Set.	Remarks.
Woolwich Section, No. 10.			
Locks, pad, iron, 2-inch		1	
Woolwich Section, No. 11.			
Bottles, tin oil, with screw top, 2 quarts		1	
Methylated spirits*	pints	12†	
Oil, colza§	,,	30‡	
Oxygen mixture*	lb.	24†	
Wick, round, $1\frac{1}{2}$-inch§	yards	10‡	
Woolwich Section, No. 25.			
Scissors, lamp*		2	For lime light apparatus.

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* Issued to certain stations where specially authorised.
† Twelve months' supply.
‡ For 4 lamps for 150 hours; classes using a greater or lesser number will draw in proportion. § Supplied by Army Service Corps.

Signalling Equipment—*continued.*

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Arty.
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TABLE 5—*continued.*	Per Set.	Remarks.
Woolwich Section, No. 27.		
Cotton, waste ... ... lb.	3‖	
Woolwich Section, No. 28.		
Apparatus, limelight* Bags gas	4	
Apparatus, limelight* Bags pressure	2	
Apparatus, limelight* Bottles, cleansing gas	2	
Apparatus, limelight* Cases brass	2	
Apparatus, limelight* Cases iron	2	
Apparatus, limelight* Cases tin	2	
Apparatus, limelight* Cylinders, lime pencils	2	
Apparatus, limelight* Flasks	2	
Apparatus, limelight* Lamps	2	
Apparatus, limelight* Pencils ... ... doz.	2	
Apparatus, limelight* Retorts, Mark III	4	
Apparatus, limelight* Spanners...	4	1 for each retort
Books, signalling† Manual of Instruction...	4	
Books, signalling† Message forms	4	Army Form 295 A. (1), with 2 sheets of carbon paper each.
Cans, oil, feeding, army signalling	1	
Cards, test‡	25	
Cases, message book	2	On waist belt.
Chests, signalling stores...	1	The proportion of "white with stripe" and "blue" is left to local discretion.
Flags, signal, army§ 2-ft. square	18	
Flags, signal, army§ poles, 3 ft. 6 in.	18	
Heliographs, 5-inch*	2	
Keys, dummy, signallers	2	
Lamps, bull's-eye, signal, with stand	4	
Stands, telescope, signalling	2	
Telescopes, signalling	2	
Tubing, indiarubber* ... ...yards	10	
Wheels, cypher	2	

54
Signallers
43
53

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* Issued to certain stations where specially authorised.
† Twelve months' supply—stationery office supply.
‡ Supplied from the War Office on requisition.
§ Will be issued when present stock of flags, signal, semaphore and poles, ha been used up.
‖ For 4 lamps for 150 hours; classes using a greater or lesser number will draw in proportion.

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Musical Instruments.
(Peace and War.)

54
Arty.
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TABLE 6.	Proportions.
Woolwich Section, No. 1.	*Service Companies.*
Bugles, Trumpets	1 per trumpeter. *Depots.* 1 per trumpeter. 1st Depot Eastern Division, Dover, 20 For training boys. 2nd ,, ,, ,, Yarmouth, 12 1st ,, Southern ,, Gosport, 20 2nd ,, ,, ,, Seaforth, 12 1st ,, Western ,, Devonport, 20 2nd ,, ,, ,, Scarboro', 12 Garrison Artillery, Sheerness ... 12 1 per serjeant trumpeter.
Pitch pipes	1 per serjeant trumpeter (peace only).
Strings, bugle, and trumpet, Royal	1 per bugle and 1 per trumpet.
Tuning forks	1 per serjeant trumpeter (peace only).

Drawing Instruments.

TABLE 6A.	Proportions.
Woolwich Section, No. 29.	
Instruments, drawing—regimental schools	1 set per company (peace only).

Camp Equipment and Intrenching Tools.

Camp equipment and intrenching tools when required for camps, in time of peace, will be issued in the proportions laid down in Section X, Part 1.

Tools, Artificers, and Opening Packages.

TABLE 7.	Proportions.	
Woolwich Section, No. 7.		
Chests, tool, filled* No. 1 B.	2 per head-quarter station	In accordance with paragraph 215, Part 1.
,, ,, 3 B.	3 ,, ,, ,,	
,, ,, 6 B.	1 ,, ,, ,,	
,, ,, 11 D.		
,, ,, 12 C.		
,, ,, 12 D.		
Chisels, ripping	1 per company	Opening packages.
Drivers, screw, G.S., 9-inch	1 ,, ,,	
Hammers, riveting, 24-oz.	1 ,, ,,	
Woolwich Section, No. 20.		
Knives, laboratory	1 per company.	Opening packages.

* Devonport, Portsmouth, Sheerness, and Gibraltar will have a double supply of tools for the separate commands.

Miscellaneous Stores.

(Peace and War.)

TABLE 8.	Per Company.		Remarks.
	Service.	Depôt.	
Woolwich Section, No. 1.			
Handcuffs, common ... ... pairs	2	2	
Woolwich Section, No. 25.			
Boxes, schoolmasters'	...	1	
Brushes, stencil	2	2	Marking valises.
Chests, R.A. records'	...	6	
Plates, stencil, paper	4	4	2 for marking back and 2 for front of valises.
Stamps brass or gunmetal on wood, figures, 0 to 8, ¼-in. ... sets	1	1	
,, brass or gunmetal on wood, letters, 1 letter, ¼-in.	...	...	As required.
,, brass or gunmetal on wood, letters, 2 letter, ¼-in. (R.A.)	1	1	
,, brass or gunmetal on wood, letters, 3 ,, ¼-in. (Dep.)	...	1	
,, steel for wood, letters, 1 letter, ¼-in.	..	...	As required.
,, steel for wood, letters ... 3 ,, ¼-in. (Dep.)	...	1	

51
Arty.
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8407
Equip.
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Stores for Instruction in Service Electrical Instruments.*

(Referred to in paragraph 94.)

57
Gen. No.
9635

TABLE 9.		No.
Woolwich Section, No. 10.		
Mercury, for amalgamation of zinc plates	lb.	3
Woolwich Section, No. 11.		
Acid, sulphuric	lb.	4
Copper, sulphate of	,,	4
Salammoniac, crushed	,,	7
Zinc, sulphate of	,,	4
Woolwich Section, No. 22.		
Battery and key, test and firing (Mark III)*		1
Woolwich Section, No. 28.		
Batteries — Daniell's, signalling (low resistance) cells		2
Batteries — Le Clanché, firing, single, cell		4
Batteries — ,, No. 3 size		2
Batteries — Menotti, test, with galvanometer in leather case		1
Coils, resistance — 10,000 ohms		1
Coils, resistance — 100 ohms, with key		1
Fittings, test table — keys, reversing		1
Fittings, test table — screws, or plugs, connecting		3
Galvanometers — detector, 3-coil		1
Galvanometers — horizontal, 800 ohms		1
Keys, firing, L.S.		1
Lamps, electric, 4 volts		1
Magnets, bar, steel, 8-in.	pairs	1
Tools, jointers, telegraph:—		
Compound, Chatterton's	lb.	2
Files, bastard, safe edge, 8 in.		1
Gutta percha, 2 ft. × ⅛ in., sheets	lb.	2
Irons, smoothing, telegraph jointers		1
,, soldering ,, ,,		1
Knives, paring		1
Lamps, spirit, telegraph equipment		1
Pliers, side cutting, 8 in.		1
Solder, tinman's	lb.	3
Wick, common	,,	1
Wire, platinum-silver	oz.	¼
Woolwich Section, No. 29.		
Compass, magnetic, pocket		1
Telephones, for instruction		1
Wire — covered — B 1	yards	50
Wire — covered — C 4	,,	20
Wire — uncovered, 14 B.W.G., copper	,,	50
A supply of unserviceable cable cores and leads, for practice in jointing.		1
BOOKS.		
First book of Electricity and Magnetism (by Mr. Perren Maycock)		1
Notes on Electricity for Use of Garrison Artillery (by Lieutenant-Colonel Jocelyn, R.A.)		1
The Practical Telephone Handbook (by J. Poole)		1

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Malta.
614
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Bermuda.
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* Allowed to the following stations:—

Eastern District	1 Set.	Cape of Good Hope	1 Set.
South Eastern District	1 ,,	Gibraltar	1 ,,
Southern District — Portsmouth	1 ,,	Malta	2‡ ,,
Southern District — Isle of Wight	1 ,,	St. Lucia	1 ,,
Thames District	1 ,,	Bermuda	1 ,,
Cork ,,	1 ,,	Mauritius	1 ,,
Western District	1 ,,	Halifax	1 ,,

† Unserviceable Telephones, of any description available, will be supplied.

‡ One for use of Royal Malta Artillery.

DRILL STORES.

To be accounted for in the returns of miscellaneous stores in possession of the head-quarters of Royal Artillery Districts.

Stores for Gun Drill.

(Referred to in paragraphs 89 *and* 97.)

TABLE 10.	Proportion.		
Woolwich Section, No. 5.			
Brushes, water carriage	1 per gun for cleaning the projectile.		
Woolwich Section, No. 16.			
Ordnance, R.B.L. fittings — Blocks, breech, 40-pr. side closing, drill	1 per 40-pr. side closing gun, from which drill is carried on.		
Ordnance, R.B.L. fittings — Pieces, vent, drill, 40-pr ...	1 per 40-pr. gun, with vent piece, from which drill is carried on.		
Rifles and **Tubes,** aiming. *See* Table 10A, pages 592 to 594.			
Woolwich Section, No. 18.			
Cases, cartridge, No. 4	2 per gun, 80, 64, and 40-pr. R.M.L., and 40-pr. R.B.L.		
Extractors, shell, drill — B.L. — large	1 per gun, 8-in. to 12-in.	From which drill is carried out.	75 12 6627
Extractors, shell, drill — B.L. — small	1 ,, 6 ,, ,, 4 ,,		
Extractors, shell, drill — Q.F. — large	1 ,, 6 ,, ,, 4 ,,		
Extractors, shell, drill — Q.F. — small	1 ,, 12-pr.		
Tackles, gun	*See* Equipment for 6·6-in., 80, 64 and 40-pr. R.M.L. guns; also for R.B.L. guns.		
Woolwich Section, No. 20.			
Cartridges — drill	Sufficient cartridges to make up *one full* charge for all guns, and 1 spare to every 5 of each nature supplied.		
Cartridges — drill, Q.F. — 6-inch	1 per gun and 1 spare to every 5 guns of each nature.		57 Gibraltar 6708
Cartridges — drill, Q.F. — 4·7 ,, ...			
Cartridges — drill, Q.F. — 12-pr.			
Cartridges — drill, Q.F. — 6-pr.			
Cartridges — drill, Q.F. — 3-pr.			
Cylinders, cartridge — B.L.	4 per 12-in. and 10-in., 2 per 9·2-in. and 8-in., and 1 per 6-in. gun.		
Cylinders, cartridge — R.M.L.	2 per 12·5-in. and 10·4-in., and 1 per 12-in. to 7-in.		
Lubricators, drill, dummy — 7-inch	1 per drill cartridge.		
Lubricators, drill, dummy — 40-pr.	1 ,, ,, ,,		
Woolwich Section, No. 22.			
Composition, priming	2 oz. (in glass bottle) per work, where electric P and V tubes are used for drill—for re-priming the tubes.*		
Tubes** — A total of 25 per gun (except B.L. 6-inch Mark VII and Q.F.), made up of equal numbers of the various kinds in the equipment of the gun.			
Tubes** — friction, drill	1 per gun from which drill is carried on, and 1 spare to 5.		57 Gen. No. 9398
Tubes** — vent sealing — friction V, drill ...	2 per gun, 12·5-in. R.M.L., Mark II.		57 L'donderry 417
Tubes** — vent sealing — percussion drill ...	3 per gun, 12-in. to 4-in. B.L., and Q.F., 6-in. to 12-pr.		

** The tubes "electric, No. 11" and "V.S. electric P and V, drill" will continue in use till worn out.

Stores for Gun Drill—*continued.*

	TABLE 10—*continued.*	Proportions.
	Woolwich Section, No. 24.	
	Gas checks, R. M. L.	1 per gun for all natures taking gas-checks.
	Plugs, fuze-hole, drill, G.S.	1 per gun from which drill is carried on and 1 spare to 5 such guns.
73 12 6627	**Shells,** empty, common*	1 per gun, B.L. and R.M.L., and 1 to 5 spare of each nature from which drill is carried on.
57 Gibraltar 7081	**Shells,** Q.F., drill { 6-inch 4·7-inch 12-pr.	1 per gun and 1 to 5 spare from which drill is carried on.
	Woolwich Section, No. 28.	
	Wire, platinum silver (21 grains per yard)	6 inches per electric drill tube. for re-bridging the tube after each time of firing. *Vide* para. 98.†
	Woolwich Section, No. 29.	
	Range-finders, depression, Mark I.	1 per Gunnery Instructor, for instruction of R.A.

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* "Drill shells" will be used with those guns for which they have been approved.

† About 1 inch of the platinum silver wire required for each tube, and each tube should stand repairing about 20 times.

57 Cape 5633	**TABLE 10A**—AIMING RIFLES.	Per gun B.L. 6-in. and upwards, where specially authorised.	Spare per District to number shown, or less.
	Woolwich Section, No. 16.		
	Rifle, aiming, 1-inch, Morris B.L.		
	Barrel, 1-inch	1	...
	*Block, retaining, electric needle	1	...
	Breech-piece (complete)	1	1 to 6 rifles
57	Clips, extracting, pairs	...	1 to 3 rifles
29	Spring for striker	...	1 to 3 rifles
3927	Striker	—	1 to 6 rifles
	Discs, extracting	10	...
	*Frames, expanding	1	...
	Needles { electric	1	2 per gun
	Needles { percussion	1	2 per gun
	Tube, 0·23-inch "E"	1	...
	IMPLEMENTS.		
	Rifle, aiming, 1-inch, Morris B.L.		
	Tommy	1	...
	Wrenches { breech-piece	1	...
38407	Wrenches { discs, extracting	1	...
Equip.	Wrenches { *expanding	1	...
1804	Wrenches { needle	2	...
	Rifles, aiming, 1-inch		
73	Brush, cleaning	1	1 to 2 rifles
12	Rod, cleaning	1	1 to 2 rifles
785	**Tube,** 0·23-inch		
	Brush, cleaning	1	2 per rifle
	Rod, cleaning	1	1 to 2 rifles

* Special to each description of gun.

Stores for Gun Drill—*continued.*

TABLE 10A—Aiming Rifles—*contd.*	Per gun R.M.L. 9 in. and upwards, where specially authorised.	Spare per District to number shown, or less.
Woolwich Section, No. 16.		
Rifle, aiming, 1-inch, Morris, R.M.L.		
Barrel, 1-inch	1	...
Breech-blocks electric	1	...
Breech-blocks percussion	1	...
Contacts barrel	...	1 per rifle
Contacts needle	...	1 per rifle
*Frame, expanding	1	...
Lanyard, with firing lever	1	...
Needles	...	1 per rifle
Screws, retaining, socket	...	2 per rifle
Springs main	...	2 per rifle
Springs needle, electric	...	2 per rifle
Springs retaining, cocking, lever	...	2 per rifle
Springs trigger	...	2 per rifle
Striker	...	1 per rifle
Studs, trigger	...	2 per rifle
Terminals, barrel	...	2 per rifle
Trigger	...	1 per rifle
Tube, 0·23-inch "D"	1	...
Implements.		
Rifle, aiming, 1-inch, Morris, R.M.L.		
Extractor, cartridge	1	1 to 4 rifles
Wrenches barrel	1	...
Wrenches cap	1	1 per rifle
Wrenches cone	1	...
Rifles, aiming, 1-inch		
Brush, cleaning	1	1 to 2 rifles
Rod, cleaning	1	1 to 2 rifles
Tube, 0·23-inch		
Brush, cleaning	1	2 per rifle
Rod, cleaning	1	1 to 2 rifles

* Special for each description of gun.

TABLE 10A—Aiming Rifles.	Per gun Q.F. 6-in. and 4·7-in. if required.	Spare per District to number shown, or less.
Woolwich Section, No. 16.		
Rifle, aiming, 1-inch, Morris, Q.F.		
Barrel, 1-inch, 4·7-inch	1	...
,, ,, 6-inch	1	...
Tube, 0·23-inch "C"	1	...
Implements.		
Rifle, aiming, 1-inch, Morris, Q.F.		
Extractors barrel	1	...
Extractors cartridge	1	1 to 4 rifles
Rifles, aiming, 1-inch		
Brush, cleaning	1	1 to 2 rifles
Rod, cleaning	1	1 to 2 rifles
Tube, 0·23-inch		
Brush, cleaning	1	2 per rifle
Rod, cleaning	1	1 to 2 rifles

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Gen. No.
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Cape
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Gen. No
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73
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Stores for Gun Drill—*continued.*

TABLE 10A—AIMING RIFLES—*cont.*	Per gun, B.L. 5-in. and 4-in., R.B.L. 7-in. to 20-pr., R.M.L. 7-in. to 9-pr., where specially authorised.	Spare per District to number shown, or less.
Woolwich Section, No. 16.		
Rifle, aiming, M.H. chamber, Ewart		
Bands*	2	
Barrels, rifle	1	
Cord, firing	1	
Links, trigger	1	
Levers, vent	1	
Tube, aiming, M.H. rifle	1	
IMPLEMENTS.		
Tube, aiming		
Brush, cleaning...	1	
Key, M.H.	1	
Rod, cleaning	1	
Woolwich Section, No. 22.		
Lanyards, friction, tube, siege, No. 1†	1	

* Special to each description of gun.
† Only to be demanded where such lanyards are not already on charge.

STORES FOR GUN AND REPOSITORY DRILLS, AND FOR GENERAL INSTRUCTION. (SERVICE COMPANIES.)

(*Referred to in paragraph* 91.)

57
Portsmouth
3516

TABLE 11.		No.	Remarks.
Woolwich Section, No. 2.			
Axes, pick { heads		2	Required when erecting light sheers.
Axes, pick { helves		2	
Mauls, iron, hooped		8	
Posts, picket, 5 feet		6 36	Holdfasts for light sheers.
Shovels, universal		4	Required when erecting light sheers.
Tent, mallets		6	
Woolwich Section, No. 4.			
Boxes, grease, 3 lb.		1	
Carts, sling		1	
Wagons, sling, 6 tons		1	
Woolwich Section, No. 5.			
Brushes, water, carriage		4	For cleaning projectiles.
Woolwich Section, No. 7.			
Chalk, prepared, white..	boxes	1	Annual supply.
Hammers, claw, 28-oz...		2	
Pincers, carpenters	...pairs	1	
Spanners, McMahon, 15-inch		1	
Spikes, marline, iron, 12-inch		12	

Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

TABLE 11—*continued.*	No.	Remarks.
Woolwich Section, No. 10.		
Filters, hydraulic, jack...	1	
Frames, store, hydraulic jack, G.S....	1	
Jacks, lifting — hydraulic G.S., 10 tons ...	2	
Jacks, lifting — screw, Clerk's ...	1	
Slings, chain, 12 to 25 tons — breech ...	1	
Slings, chain, 12 to 25 tons — muzzle ...	1	
Thimbles, sheer, 5-inch rope (to take hook of 15-inch block)	8	For light sheers.
Woolwich Section, No. 11.		
Grease, Field's ... lb.	12	Annual supply.
Paint — blue, ultramarine ...	1	Annual supply.
Paint — lead — red... ,,	1	Annual supply.
Paint — lead — white ... ,,	1	Annual supply.
Woolwich Section, No. 12.		
Timber, spars for sheers and derricks — 40 feet by 13 inches mean diam.	2	For sheer legs.
Timber, spars for sheers and derricks — 25 feet by 7 inches...	1	For derrick.
Timber, spars for sheers and derricks — 30 feet by 9 inches...	1	For derrick.
Woolwich Section, No. 13.		
Lithographs, coloured, small, R.L. (tube, electric, No. 10)	1	
Woolwich Section, No. 14.		
Buckets, sponge, garrison ...	3	
Capstans, crab ...	1	
Carriages, garrison, R.M.L. 64-pr., 58 cwt., common, wood	4	
Cylinders, recoil, steel, 6-inch, B.L., disappearing carriages, Mark IV	1	
Gyns, triangle, with appurtenances — heavy ...	1	
Gyns, triangle, with appurtenances — light ...	1	
Handspikes, common — 7 feet ...	16	
Handspikes, common — 6 feet ...	40	
Levers — No. 1 ...	1	
Levers — 14 feet ...	2	
Levers — 12 ,, ...	2	
Pedestals, carriage, garrison, common, R.M.L., 64-pr., 58 cwt.	4	
Spanners — No. 32 ...	1	
Spanners — ,, 33 ...	1	
Spanners — ,, 37 ...	1	
Wagons, platform ...	1	
Woolwich Section, No. 16.		
Extractors, cartridge, Q.F., hand. small ...	1	
Ordnance, S.B. guns — 68-pr., 95 cwt. ...	1	For elementary instruction.
Ordnance, S.B. guns — 32-pr., 58 cwt ...	2	If available.
Plugs, vent...	2	
Spikes, gun — common ...	1	
Spikes, gun — spring ...	1	
Vent Servers (with lanyard) ..	2	

Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

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Portsmouth
3516

TABLE 11—*continued.*	No.	Remarks
Woolwich Section, No. 17.		
Boxes, obturating pads, 5-inch	1	
Extractors, tube, vent sealing	1	
Extractors, tube, V. M.	1	
Extractors, tube, P.	1	
Extractors, tube, P. special	1	
Ordnance, B.L., 5-inch, Mark III., bolts, stop	1	
Ordnance, B.L., 5-inch, Mark III., boxes, slide	1	
Ordnance, B.L., 5-inch, Mark III., discs, pad, obturating, adjusting	2	
Ordnance, B.L., 5-inch, Mark III., discs, pad, obturating, protecting ... sets	1	
Ordnance, B.L., 5-inch, Mark III., locks, percussion	1	
Ordnance, B.L., 5-inch, Mark III., pads, obturating	1	
Ordnance, B.L., 5-inch, Mark III., rings, carrier	1	
Ordnance, B.L., 5-inch, Mark III., screws, breech	1	
Ordnance, B.L., 5-inch, Mark III., vents, axial	1	
Ordnance, B.L. fittings, locks, electric, B	1	
Ordnance, B.L. fittings, locks, percussion, D	1	
Ordnance, B.L. fittings, wrenches, firing mechanism	1	
Ordnance, R.M.L. 64-pr., 58 cwt	2	For drill and shifts
Ordnance, S.B.B.L., 32-pr., fittings		
Ordnance, Cups, obturating, large	1	
Prickers, vent, 12-inch	2	
Rimers, vent, axial	1	
Woolwich Section, No. 18.		
Blocks, wood, Bothway, single, 12-inch	1	
Blocks, wood, Bothway, single, 8-inch	2	For erecting light sheers.
Blocks, wood, Bothway, double, 12-inch	1	
Blocks, wood, Bothway, double, 8-inch	2	For erecting light sheers
Blocks, wood, Bothway, double, 12-inch (in parts)	1	
Blocks, wood, Bothway, treble, 12-inch	2	For erecting light sheers.
Blocks, wood, Snatch, 12-inch	2	
Blocks, wood, Snatch, 15-inch	2	
Brushes, piasaba, R.M.L. 80-pr.	2	
Caps, sponge, No. 8	2	
Cases, cartridge, No. 4	4	For 80, 64, and 40-pr R.M.L. and 40-pr. R.B.L. guns.
Cordage, hawser, 3-strand, tarred, 4½-inch ... fathoms	113	In two half-coils for guys. For light sheers.
Cordage, hawser, 3-strand, tarred, 2½ " ... "	113	For general purposes.
Cordage, hawser, 3-strand, tarred, 2½ " ... "	113	In two half-coils for runners. For light sheers.
Cordage, hawser, 3-strand, tarred, 2½ "	75	In three lengths of 25 fathoms. For light sheers.
Cordage, hawser, 3-strand, tarred, 1½ " ... "	113	For general purposes.
Cordage, hawser, 3-strand, tarred, 1 " ... "	48	For anti-twisters. For light sheers.
Cordage, hawser, 3-strand, white, 4 " ... "	113	For main tackle. For light sheers.
Cordage, hawser, 3-strand, white, 4 ... "	25	For head lashing of light sheers.
Cordage, spun yarn ... lb.	2	
	12	For making selvagees.
Gaskets, crab, capstan	2	
Rammers, R.M.L. 64-pr.	2	
Ropes, drag, heavy ... pairs	8	
Ropes, parbuckling, 18 fathoms, 4-inch	4	
Selvagees, ordinary	4	
Slings, rope, 6-inch 12 feet long	5	For light sheers.
Slings, rope, 6 " 5 "	1	
Slings, rope, 5 " 5 "	1	
Slings, rope, 4 " 5 "	1	

Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

TABLE 11—*continued.*	No.	Remarks.
Woolwich Section, No. 18—continued.		
Sponges, R.M.L., 64-pr., wood stave, 58 cwt.	2	
Tackles luff, 14 fathoms	5	
Tackles whip upon whip	2	
Tampeons, R.M.L. 80-pr.	2	
Twine, whipping... lb.	1	
Wadhooks, S.B., 8-inch gun	2	
Woolwich Section, No. 19.		
Blocks, dismounting, siege	2	
Planks, moving guns, half 6-ft. × 12-in.	8	
Planks, moving guns, half 4 ,, × 12 ,,	4	
Planks, moving guns, whole 10 ,, × 17 ,, fir	12	
Planks, moving guns, whole 10 ,, × 17 ,, oak	6	
Rollers, ground 6 ft. × 10 in. diameter	4	
Rollers, ground 6 ,, × 6 ,, ,,	4	
Rollers, ground 3 ,, × 6 ,, ,,	4	
Rollers, ground 2 ,, × 5 ,, ,,	3	
Rollers, ground 14 in. × 5 ,, ,,	2	
Scotches large	20	
Scotches large, handled	2	
Scotches medium	30	
Scotches small	30	
Shoes, sheer for feet of sheers	2	
Shoes, sheer for foot of derrick	1	
Skids 20 ft. × 15 in. square	2	
Skids 20 ,, × 9 ,, ,,	2	
Skids 6 ,, × 12 ,, ,,	10	
Skids 5 ,, × 6 ,, × 5 in.	4	
Skids 4 ,, × 12 ,, square	10	
Skids 3 ,, × 9 ,, × 6 in.	8	
Skids 3 ,, × 6 ,, × 5 ,,	8	
Skids 3 ,, × 6 ,, × 3 ,,	8	
Skids 3 ,, × 5 ,, × 4 ,,	8	
Skids dismounting 14 ft. × 8 in. square	8	
Skids dismounting 10 ,, × 8 ,, × 13 in.	1	
Woolwich Section, No. 20.		
Cartridges drill, R.M.L., 64-pr., 8 lb.	1	
Cartridges B.L., empty, 6-inch. 12 lb. E.X.E.	1	
Cartridges R.B.L., empty, serge, 40-pr., 5 lb.	1	
Cartridges R.M.L., silk cloth, 9-inch 50 lb.	1	
Cartridges R.M.L., silk cloth, 9-inch 33 ,,	1	
Cases, powder, 100 lb.	1	
Charcoal alder ground	...	Specimen of each, in bottles.
Charcoal alder whole	...	
Charcoal dogwood ground	...	
Charcoal dogwood whole	...	
Prickers, cartridge	1	
Saltpetre rough	...	Specimen of each, in bottles.
Saltpetre refined	...	
Sulphur, refined	...	
Woolwich Section, No. 21.		
Acid, picric	...	Specimen in bottle.
Cartridges B.L., filled, 6-inch, 12 lb., E.X.E.	1	Filled with wooden prisms.
Cartridges R.B.L., filled, 40-pr. 5 lb., R.L.G.	1	Filled with coal dust.
Cartridges R.M.L., 9-inch 50 lb.	1	Filled with wooden cubes.
Cartridges R.M.L., 9-inch 33 ,,	1	

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Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

ABLE 11—*continued.*	No.	Remarks.
Woolwich Section, No. 21—continued.		
Gunpowder, specimens in glass bottles — E.X.E.	...	About 2 ozs. of each, in bottles.
Gunpowder — L.G.	...	
Gunpowder — M.G.[1]	...	
Gunpowder — P.	...	
Gunpowder — S.P....	...	
Gunpowder — P.[2]	...	
Gunpowder — Prism[1], black	...	
Gunpowder — Prism[2]	...	
Gunpowder — Prism[1], brown	...	
Gunpowder — Q.F.[1]	...	
Gunpowder — R.F.G.	...	
Gunpowder — R.F.G.[2]	...	
Gunpowder — R.L.G.	...	
Gunpowder — R.L.G.[2]	...	
Gunpowder — R.L.G.[4]	...	
Gunpowder — S.B.C.	...	Specimen of each, in bottles.
Gunpowder — Rifle pistol	...	
Lyddite	...	
Picric powder	...	
Woolwich Section, No. 22.		
Adapters, shell — rifled...	1	
Adapters, shell — S.B.	1	2 ozs. (in glass bottle), per work where electric P and V tubes are used for drill; for re-priming the tubes.*
Batteries and keys, test and firing	1	
Boxes — tube, garrison	2	
Boxes — Vesuvian matches	1	
Composition, priming... ... ... ozs.	2	
Cups, R.B.L. guns — 7-inch	1	
Cups, R.B.L. guns — 40-pr.	1	
Cups, R.B.L. guns — 40-pr. side closing	1	
Cylinders, detonator, No. 8, for 8, Siege Artillery, Mark II	1	
Extractors, tin, cup — cross head	1	
Extractors, tin, cup — hook	1	
Fuzes, unserviceable, time, wood	100	
Implements, fuze, shell, and cartridge — bits, hook borer	6	
Implements — cylinders, common...	1	
Implements — drifts, G.S.	1	
Implements — drivers, screw, Shrapnel, large ...	1	
Implements — extractors, fuze, small rifled ...	1	
Implements — funnels, shell, copper, small ...	1	
Implements — handles, hook borer...	1	
Implements — hooks — G.S. wad	1	
Implements — hooks — hook borer	1	
Implements — keys — fuze and plug — Armstrong ...	1	
Implements — keys — fuze and plug — G.S.	1	
Implements — keys — universal	1	
Implements — mallets, common	1	
Implements — pincers, Shrapnel, primer... ...	1	
Implements — rods, filling, shell — large	1	
Implements — rods, filling, shell — small... ...	1	
Implements — scrapers, shell — 32-inch	1	
Implements — scrapers, shell — 20 „	1	
Implements — wrenches, base plug	1	

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* P tubes take 2 grains, V tubes 3½ grains.

Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

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TABLE 11—*continued.*	No.	Remarks.	
Woolwich Section, No. 22—continued.			
Lanyards, friction tube, garrison, No. 1	1		
,, 2	1		
,, 3	2		
Plugs, base, shell, medium	1		
large	1		
Straps, tube box, long	2		
Tubes, friction, drill	3		
vent-sealing, electric, P. drill	1		
V. ,,	1		
friction, V. ,,	1		
percussion ,,	1		
Woolwich Section, No. 22A.			
Cartridges, Q.F., adapters	1		
primers, electric, large	1		
6-pr. common shell	1		
steel shell	1		
4·7-inch, empty	1		
,, lids	1		
,, wads, felt	1		
,, ,, millboard	1		
saluting, 6-pr., cases, Mark III	1		
wads, felt, Mark III	1		
parts of, 6-pr. steel shell, Mark III	1		
Clips, cartridge, Q.F. 6-pr.	1		
Gauges, shell, ring, Q.F., body, 4·7-inch	1		
band, 4·7-inch, high	1		
low	1		
Implements, fuze, shell, and cartridge, holders, cartridge, Q.F., 4·7-inch	1		7615
12 pr.	1		244
keys, electric, primer, Q.F., large, inserting primer	1		
removing primer	1		
Plugs, base, shell, Hotchkiss, Mark I	1		
Shells, Q.F., empty, 4·7-inch, armour-piercing	1		
common, iron	1		...
cast steel	1		244
12-pr. common cast steel	1		
Woolwich Section, No. 24.			
Discs, base plug, large	1		
small	1		
Gaschecks, M.L., 9-inch, automatic, Mark I	1		
,, ,, II	1		
Mark I	1		
,, II	1		
6·3-inch	1		
40-pr.	1		
Implements, fuze, shell, and cartridge, chisels, metal	1		
preparing cannelures	1		
hammers, metal	1		
spanners, gas-check, nut, 7-inch	1		
plug, 6·3-inch	1		
Plates, stencil, brass, bag	1		
filled	1		

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Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

TABLE 11—*continue*	No.	Remarks.
Woolwich Section, No. 24—continued.		
Plates, stencil, copper, ring, B.L., common, red band, 6-inch ...	1	
white band, 6-inch ...	1	
Rings, base plug, large	1	
small	1	
Shells, B.L. empty, common, 6-inch, Mark III, iron ..	1	
pointed, Mark I ...	1	
R.M.L. empty, common, 9-inch, studded, prepared ...	1	
unprepared	1	
studless, iron... ...	1	
64-pr.	2	
ring, 2·5-inch	1	
Shot, B.L., case, 6-inch	1	
R.M.L., case, 9-inch	1	
80-pr.	1	With removable lid.
empty, paper, B.L., 9·2-inch, front ...	1	
rear ...	1	
6-inch	1	
R.M.L., 9-inch	1	
Strips, augmenting, B.L., 6-inch	6	
Wads, fuze hole, G.S.	2	
R.B.L., sockets	2	
wedge, 9-inch	1	
8 „	1	
Woolwich Section, No. 25.		
Boards, black, musketry instruction	1	
Compasses, chalk	1	
Easels, musketry instruction...	1	
Pointers, 6 feet	1	
Rulers, flat, lancewood, 3 feet	1	
Woolwich Section, No. 27.		
Check, cotton ... ... yards	6	Annual supply. For dusting black-boards.
Woolwich Section, No. 28.		
Bags, guncotton, waterproof, 2 lb.	1	
Woolwich Section, No. 29.		
Boards, drawing, antiquarian	1	
Clinometers, Watkin	1	
Indicators, range	1	
Instruments, drawing, regimental schools ...	6	
Range-finders, depression	1	
Rods, measuring, common, 6 feet	3	
Scales, mathematical, No. 3, Marquoi	6	
T Squares, 36-inch	3	
Tapes, measuring, 50 feet	1	
Thermometers, common	1	
wet and dry bulb, common ...	1	
Wire, covered, B. 6 ... . yards	100	

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Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

TABLE 11—*continued.*					No.	Remarks.
PATTERNS FOR INSTRUCTION.						
Woolwich Section, No. 21.						
Guncotton	dry, primers, D, 1·25-in. × 1·25-in. one perforation				1	
	wet, slabs, O, 6⅛-in. × 6⅛-in. × 1¾-in. unperforated				1	
Woolwich Section, No. 22.						
Boxes, sections of fuzes No. 3					1	
Detonators, dummy, No. 8	whole				1	
	section				1	
Fuzes, for instruction*	electric, No. 14				1	
	B.L. plain, No. 2				1	
	percussion	base, large, No. 11			1	
		,, medium, No. 12			4	
		direct action	No. 3		1	
			delay, No. 10		1	
		Pettman	G.S., No. 5		1	
			land, No. 6		1	
		R.L., No. 7			1	
		small, No. 8			1	
	time	Armstrong E, No. 22			1	
		sensitive	long, No. 23		1	
			middle, No. 24		1	
		15 secs.	M.L.	No. 41	1	
				special priming, No. 42	1	
			with detonator, No. 43		1	
		and percussion	middle, No. 54		1	
			short, No. 55		1	
Fuzes, sections	electric, No. 14				1	
	percussion	B.L., plain, B.F., No. 2			1	
		base	large, No. 11		1	
			medium, No. 12		4	
		direct action	B.F., No. 3		1	
			delay, No. 10		1	
		Pettman	G.S.	B.F., No. 5	1	
				A.F., No. 5	1	
			Land	B.F., No. 6	1	
				A.F., No. 6	1	
		R.L.	B.F., No. 7		1	
			A.F., No. 7		1	
		small	B.F., No. 8		1	
			A.F., No. 8		1	
	time	Armstrong E, B.F., No. 22			1	
		sensitive	long	B.F., No. 23	1	
				A.F., No. 23	1	
			middle	B.F., No. 24	1	
				A.F., No. 24	1	
		15 seconds	M.L.	No. 41	1	
				special priming, No. 42	1	
			with detonator, No. 43		1	
		and percussion	middle	B.F., No. 54	1	
				A.F., No. 54	1	
			short	B.F., No. 55	1	
				A.F., No. 55	1	
Matches, Vesuvian	box				1	

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* The bodies of metal fuzes burnt at proof by Inspecting Officers may also be utilized, as far as may be required, for instructional purposes, after being well boiled out.

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Portsmouth
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Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

TABLE 11—*continued.*	No.	Remarks.
PATTERNS FOR INSTRUCTION—*continued.*		
Woolwich Section, No. 22—continued.		
Tubes, for instruction, whole, electric, No. 10	1	
Tubes, for instruction, whole, friction, copper, L.S., long	1	
Tubes, for instruction, whole, friction, copper, L.S., short	1	
Tubes, for instruction, whole, friction, copper, solid drawn	1	
Tubes, for instruction, whole, friction, copper, 7-pr.	1	
Tubes, for instruction, whole, vent, sealing, electric, P	1	
Tubes, for instruction, whole, vent, sealing, electric, V	1	
Tubes, for instruction, whole, vent, sealing, electric, wireless, P	1	
Tubes, for instruction, whole, vent, sealing, friction, V	1	
Tubes, for instruction, whole, vent, sealing, percussion	1	
Tubes, for instruction, section, electric, No. 10	1	
Tubes, for instruction, section, friction, copper, L.S., long	1	
Tubes, for instruction, section, friction, copper, L.S., short	1	
Tubes, for instruction, section, friction, copper, solid drawn	1	
Tubes, for instruction, section, friction, copper, 7-pr.	1	
Tubes, for instruction, section, vent, sealing, electric, P	1	
Tubes, for instruction, section, vent, sealing, electric, V	1	
Tubes, for instruction, section, vent, sealing, electric, wireless, P	1	
Tubes, for instruction, section, vent, sealing, friction, V	1	
Tubes, for instruction, section, vent, sealing, percussion	1	
Woolwich Section, No. 22A.		
Cartridges, Q.F., primers, electric, large, section	1	
Cartridges, drill, Q.F., 4·7-inch	1	
Fuzes, for instruction, percussion, base, Armstrong, No. 9	1	
Fuzes, for instruction, percussion, base, Hotchkiss	1	
Fuzes, section, percussion, base, Armstrong, No. 9	1	
Fuzes, section, percussion, base, Hotchkiss	1	
Woolwich Section, No. 24.		
Shells, filled, section, R.B.L., 40-pr., segment	1	
Shells, filled, section, R.M.L., 7-inch, common	1	
Shells, filled, section, R.M.L., 7-inch, Shrapnel	1	
Shells, filled, section, R.M.L., 2·5-inch, ring	1	
Shells, filled, section, R.M.L., 2·5-inch, Shrapnel	1	
MODELS.		
Woolwich Section, No. 2.		
Models, boards, knots, 2 ft. 8 in. × 4 ft. 9 in.	1	For model knots
Models, timber, spars, for sheers and derricks, 17 ft. 6 in. × 6 in. dia.	2	
Models, timber, spars, for sheers and derricks, 12 ,, 6 ,, × 4 ,, ,,	1	
Models, timber, spars, for sheers and derricks, 7 ,, 6 ,, × 2½ ,, ,,	1	
Woolwich Section, No. 10.		
Thimbles, sheers	4	
Woolwich Section, No. 14.		
Capstans, crab (with bars)	1	To be made locally

Stores for Gun and Repository Drills, and for General Instruction. (Service Companies)—*continued.*

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TABLE 11—*continued.*	No.	Remarks.
MODELS—*continued.*		
Woolwich Section, No. 18.		
Blocks, wood, Bothway, 4½-inch single	2	
Blocks, wood, Bothway, 4½ ,, double	2	
Blocks, wood, Bothway, 4½ ,, treble	2	
Blocks, wood, rope, strapped, 3-inch double	2	
Blocks, wood, rope, strapped, 3 ,, treble	2	
Blocks, wood, snatch, 4½-inch	6	
Cordage, white, 1½-inch ... fathoms	113	For model sheers.
Cordage, white, 1 ,, ... ,,	60	
Gaskets, crab, capstan	2	
Lines, Hambro' ... skeins	1	
Selvagees, ordinary	12	To be made up locally
Slings, gun (of sorts) white rope	8	
Woolwich Section, No. 19.		
Planks, whole, 2½-ft. × 4¼-in. × ¾-in.	10	To be made up locally.
Shoes, sheers (of sorts)	3	To be made up locally.
SPECIMENS.		
Woolwich Section, No. 18.		
Cordage, hawser, 3-strand, 3 ft. long, tarred, 9-inch	1	To be provided locally.
Cordage, hawser, 3-strand, 3 ft. long, tarred, 7½ ,,	1	
Cordage, hawser, 3-strand, 3 ft. long, tarred, 7 ,,	1	
Cordage, hawser, 3-strand, 3 ft. long, white, 12-inch	1	
Cordage, hawser, 3-strand, 3 ft. long, white, 9 ,,	1	
Cordage, hawser, 3-strand, 3 ft. long, white, 7½ ,,	1	
Cordage, hawser, 3-strand, 3 ft. long, white, 7 ,,	1	
CLEANING MATERIALS FOR LECTURE ROOM STORES.		
Woolwich Section No. 11.		
Bricks, bath	4	Annual supply.
Oil, Rangoon ... pints	1	
Woolwich Section, No. 27.		
Leathers, chamois	3	Annual supply.
Woolwich Section, No. 31.		
Rags, old, linen ... lb.	8	Annual supply.
Not in Vocabulary.		
Adapters, base plug, B.L., projectiles	1	
Cartridges, B.L., 6-inch, 14-lb. 12-oz., cordite	1	
Cartridges, B.L., 6-inch, howitzer	1	
Cartridges, dummy, Q.F., 12-pr., complete	1	
Cartridges, dummy, Q.F., 12-pr., sections	1	
Cartridges, dummy, Q.F., 12-pr., in parts	1	
Cordite, specimens of	1	In stoppered bottle.

N.B.—A few additional Drill Stores have been specially allowed to Gibraltar, also School of Instruction, Golden Hill, Isle of Wight.

Three special sets of Stores for Royal Artillery and one for Royal Malta Artillery are allowed at Malta.

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Malta
1400

57
Ceylon
1432
57
St. Lucia
903

STORES FOR STATIONS WHERE THERE ARE TWO OR MORE COMPANIES OF ARTILLERY, INCLUDING NATIVE ARTILLERY, BUT NO INSTRUCTORS IN GUNNERY.

(*Referred to in paragraph* 92.)

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Description.		No.	Remarks.
Woolwich Section, No. 2.			
Axes, pick, head, 6½ lb.		2	Required when erecting light sheers.
Axes, pick, helves, 34½-ins.		2	
Mauls, iron hooped		8	...
Posts, picket, 5-ft.		36	Holdfasts for light sheers.
Shovels, universal		4	Required when erecting light sheers.
Tent mallets		6	...
Woolwich Section, No. 4.			
Boxes, grease, 3 lb.		1	...
Carts, sling, or wagons, sling		1	...
Woolwich Section, No. 5.			
Brushes, water, carriage		2	...
Woolwich Section, No. 7.			
Chalk, white, prepared	boxes	1	Annual supply.
Hammers, claw, 28 oz.		2	...
Woolwich Section, No. 10.			
Thimbles, sheer, 5-in rope (to take hook of 15-in. block)		3	...
Woolwich Section, No. 11.			
Grease, Field's	lb.	12	Annual supply.
Woolwich Section, No. 12.			
Timber spars for sheers and derricks 40-ft. × 13-in.		2	For sheer legs.
Timber spars for sheers and derricks 25-ft. × 7-in. or 9 in.		1	For derricks.
Timber spars for sheers and derricks 20-ft. × 9-in.		1	
Woolwich Section, No. 14.			
Buckets, sponge, garrison		2	...
Capstans, crab		1	...
Carriages, garrison, R.M.L. 64-pr., common wood		2	...
Gyns, triangle, with appurtenances, light		1	...
Handspikes, common, 7-feet		4	...
Handspikes, common, 6-feet		20	...
Levers 14-feet		2	...
Levers 12-feet		2	...

Stores for Stations where there are two or more Companies of Artillery, but no Instructors in Gunnery—*continued.*

Description.	No.	Remarks.
Woolwich Section, No. 16.		
Ordnance S.B. Guns 68-pr., 95-cwt.	1	For elementary instruction.
32-pr., 58-cwt.	2	
Woolwich Section, No. 18.		
Blocks, wood, Bothway, single 12-inch	1	For erecting light sheers.
8 ,, ...	2	
double 12 ,, ...	1	For erecting light sheers.
8 ,, ...	2	
treble, 12-inch	2	
snatch 12-inch	2	
15 ,, ...	2	
Cordage hawser, 3-strand, tarred 4½-inch ... fms.	113	In two half-coils for guys for light sheers.
2½ ,, ... ,,	113	For general purposes.
2½ ,, ... ,,	113	In two half-coils for runners for light sheers.
2½ ,, ... ,,	75	In three lengths of 25 fms. for light sheers.
1½ ,, ... ,,	113	For general purposes.
1 ,, ... ,,	48	For anti-twisters for light sheers.
white 4 ,, ... ,,	113	For main tackle for light sheers.
4 ,, ... ,,	25	For head lashing for light sheers.
spun yarn ... ... lb.	14	For making selvagees.
Gaskets, crab capstan	2	...
Ropes drag, heavy ... ... pairs	4	...
parbuckling, 18 fms. 4-in.	4	...
Selvagees, ordinary	4	...
Slings, rope 6-in. 12-ft. long	5	For light sheers.
6 ,, 5 ,, ,, ...	1	...
5 ,, 5 ,, ,, ...	1	...
4 ,, 5 ,, ,, ...	1	...
Tackles, luff, 14 fathoms	5	...
Woolwich Section, No. 19.		
Blocks, dismounting, siege	2	...
Planks, moving guns, half 6-ft. × 12-in. ...	4	...
4-ft. × 12-in. ...	4	...
whole 10-ft. × 17-in., fir	6	...
10-ft. + 17-in., oak	4	...
Rollers, ground 6-ft. × 10-in. diameter	4	...
6-ft. × 6-in. diameter	4	...
3-ft. × 6-in. diameter	4	...
2-ft. × 5-in. diameter	3	...
14-in. × 5-in. diameter	2	...
Scotches large	24	...
large, handled	2	...
medium	24	...
small	24	...
Shoes, sheer for feet of sheers	2	...
,, derrick	1	...
Skids 6-ft. by 12-in. square	4	...
5 ,, 6 ,, by 5-in....	4	...
4 ,, 12 ,, square	4	...
3 ,, 9 ,, by 6-in....	8	...
3 ,, 6 ,, ,, 5-in....	8	...
3 ,, 6 ,, ,, 3-in....	8	...
3 ,, 5 ,, ,, 4-in....	8	...
dismounting, 14-ft. × 8-in. square ...	4	...

Stores for Stations where there are two or more Companies of Artillery, but no Instructors in Gunnery—*continued.*

Description.	No.	Remarks.
Woolwich Section, No. 22.		
(Patterns, &c., for Instruction.)		
Fuzes, unserviceable, time, wood	50	...
Fuzes for* instruction, percussion, direct action, No. 3 ...	1	...
Fuzes for* instruction, time, 15 seconds, with detonator No. 43	1	...
Fuzes for* instruction, time, time and percussion, middle (No. 54)	1	...
Fuzes, sections, time, 15 seconds, with detonator No. 43	1	...
Fuzes, sections, time, time and percussion, middle (B.F. No. 54)	1	...
Fuzes, sections, time, time and percussion, middle (A.F. No. 54)	1	
Fuzes, sections, percussion, direct action, B.F., No. 3...	1	...
Implements, fuze, shell and cartridge, bits, hook borer	6	...
Implements, fuze, shell and cartridge, cylinders, common	1	...
Implements, fuze, shell and cartridge, handles, hook borer	1	...
Implements, fuze, shell and cartridge, hook, hook borer	1	...
Implements, fuze, shell and cartridge, key universal...	1	...
Woolwich Section, No. 25.		
Boards, black, musketry instruction	1	...
Compasses, chalk...	1	...
Easels, musketry instruction	1	...
Pointers, 6-ft.	1	...

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* The bodies of metal fuzes burnt at proof by inspecting officers may also be utilised so far as may be required, for instructional purposes, after being well boiled out.

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Liverpool
911

Stores for Laboratory Instruction.

(*Referred to in paragraph* 90 *and Appendix III.*)

TABLE 12.

Description.	Proportions.	Remarks.
Woolwich Section, No. 11.		
Paint, lead, red, dry	2 lb. per set ...	For marking shells.
Driers	$\frac{1}{4}$,, ,, ...	
Oil, linseed, raw	1 gill ,, ...	
Turpentine	1 ,, ,, ...	
Spirits, methylated	1 pint ,, ...	For making shellac cement.
Woolwich Section, No. 13.		
Lithographs, coloured, small, R.L.	One of each.	
Woolwich Section, No. 20.		
Adze, coppers, magazine ...	1 per set.	
Bags, powder barrel, waterproof	2 ,,	
Barrels, powder, whole ...	2 ,,	
Beans, black	2 bushels per set ...	To represent R.L.G. powder.
Bearers, cartridge cylinder ...	1 per set.	
Braid, silk or worsted	As required for making up cartridges.	

Stores for Laboratory Instruction—*continued.*

TABLE 12—*continued.*

Description.	Proportions.	Remarks.
Woolwich Section, No. 20—cont.		
Cartridges, empty—		
For grain powder	10 per set ...	Of such natures as are available. The bags should be used over and over again till worn out, the chokes and ends of braid not being cut off.
,, P. ,, ...		
,, prism ,, ...		
R.B.L., with socket		
Cases, powder, metal-lined, whole, Keys	1 per set.	
Cubes, wood	Sufficient for the cartridges, which are filled with P. and 25 per cent. spare ...	Representing P. powder.
Cylinders cartridge	2 for each nature of cartridge.	
Cylinders pieces, packing ...	As required.	
Cylinders paper, R.B.L.... ...	As required for R.B.L. cartridges.	
Drivers, coopers', socket, metal	1 per set.	
Lubricators, service	1 per R.B.L. cartridge, according to calibre.	
Needles, magazine nickel silver, 1¾-inch	10 per set.	
Needles, magazine phosphor bronze, 4-inch		
Prickers, cartridge	2 per set.	
Prisms, wood	1600-50 to be black (or 1-100 lb. powder case full)	To represent Prism powder.
Scales, weighing powder, 8-lb.	1 per set.	
Scissors, magazine	1 ,,	
Seed, rape	¼ bushel per set ...	To represent F.G. powder.
Silk, twist	As required for making up cartridges.	
Sockets, cartridge	As required.	For R.B.L. cartridges.
Tape, white, 2⅛-inch		For cartridge cylinders.
Worsted, white, No. 14... ...		For R.B.L. cartridges.
Weights brass, 8, 4, 2, 1, ½, and ¼-oz.	1 of each per set.	
Weights gunmetal, 7, 4, 2, and 1-lb.		
Woolwich Section, No. 22.		
Boxes, section of fuzes, No. 3.	1 per set.	
Funnels, cartridge ...		
Fuzes, time, wood (complete, unserviceable).	50 annually per company	For instruction in boring.
Implements, fuze, shell, and cartridge—		
Drifts, G.S., long	1 per set.	
Drivers, screw, shrapnel, large		
Funnels, shell, copper large		
Funnels, shell, copper small		
Hooks, G.S., wad		
Keys base, fuze, and plug ...		
Keys fuze, and plug, G.S....		
Keys fuze, universal ...		
Mallets, common		
Pincers, shrapnel primer ...		
Scrapers, shell	1 of each according to armament.	
Wrenches, base, plug	1 per set.	

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Liverpool
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Stores for Laboratory Instruction—*continued.*

TABLE 12—*continued.*

Description.	Proportions.	Remarks.
Woolwich Section, No. 22—cont.		
Luting	As required.	
Measures, powder 1 lb.	1 per set.	
4 oz.		
1 ,, ...		
¼ ,, ...		
Primer, shrapnel shell, dummy	5 per set.	
Scoops, powder, 8½-in.	1 per set.	
Shellac, orange	1 lb. per set.	
Tubes, for instruction whole	1 per set of each of those in the armament.	
section		
Woolwich Section, No. 22a.		
Cartridges, Q.F., saluting—		
12-pr., 12-cwt., empty		
Bags, empty	10 per set.	
Jackets		
Wads, felt		
3-pr.		
Bags, empty	10 per set.	
Cases		
Jackets		
Wads felt		
Wads paper		
Woolwich Section, No. 23.		
Cartridges for instruction—		
Machine gun, small arm whole... ...	1 of each nature of those in the armament.	
section ...		
Woolwich Section, No. 24.		
Bags blowing charges, small	6 per set.	
burster	6 per common shell ...	According to calibre of shell supplied.
primer, filled, 7 drs. dummy	10 per set.	
Instrument, marking projectiles	1 per set.	
Plates, stencil	To be made locally.	For marking shells.
Plugs base, shell, large ...	1 per shell fitted with them.	
fuze hole		
Rings, base plug large ...	10 per shell fitted with them.	
small ...		
Shells, empty, common for nose fuze	2	Of such natures as are available.
for base fuze	2	
Shell, empty, shrapnel	2	
Wads, fuze hole, G.S.	10 per common shell.	
Woolwich Section, No. 25.		
Brushes, paint, sash tool, No. 4	1 per set	For marking filled shell.

TABLE 18. **Army Books and Forms for Equipment.**

Army No.	Subject.	Description.
Books.		
242	Equipment	Account Ledger, Depôt Company
242		Account Ledger, Service Company.
108		Temporary receipt and issue vouchers.
Forms.		
G 829	Materials for repairing Arms ...	Requisition and receipt and issue voucher.
G 805	Ammunition gun and rocket for practice.	Requisition.
G 804	Ammunition, blank for reviews	
G 815	,, small-arm, practice and exercise.	
G 957	Materials for repairing accoutrements.	Requisition and receipt and issue voucher.
L 1377	School books and materials...	Requisition.
O 1756	Industrial School materials...	
G 997	Equipment in general, *blank*	Requisition.
G 1033		Receipt and issue voucher.
G 1049		Expenditure, transfer and conversion voucher.
P 1925		Expense voucher.
G 1027	Materials for repair in general ...	Requisition.
G 980	Stores	Carrier's Note.
F 754		Convoy Note.
G 968	Camp Equipment	Requisition.
G 973	... ...	Account (*temporary use*).
B 79	Practice	Company Report.
B 93		Range ,,
B 269	,, (Station)	Annual ,,
P 1926	Artillery Practice Ammunition ...	Expense voucher.

4.—ROYAL ARTILLERY REGIMENTAL DISTRICT STAFF, DISTRICT ESTABLISHMENTS, SCHOOL OF GUNNERY, R.A. STAFF CLERKS, R.A. BAND, ROYAL MALTA ARTILLERY, BERMUDA MILITIA ARTILLERY AND LOCAL COMPANIES OF ROYAL ARTILLERY.

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The Establishments are published from time to time in Army Orders; and, being subject to change, they are not inserted in these Tables.

TABLE 1.	Proportions.
R. A. Mounted Band.	
HORSES.	
Band Master	1
Mounted Band	25
SADDLERY.	
Universal, sets*	26

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* For detail *see* Part I, Equipment Regulations.

Arms.

TABLE 2.	Proportions.
Weedon Section.	*District Establishment, School of Gunnery, Royal Malta Artillery, Bermuda Militia Artillery, and Local Companies of Royal Artillery.*
Carbines M.M., Artillery, Mark III. ...	All ranks except buglers and trumpeters, and those receiving staff serjeants swords.
Carbines M.-H. Morris tube	2 per company for aiming tubes.
Sword-bayonets patt. '88	All ranks except band, trumpeters, and those receiving staff serjeants swords.
Sword-bayonets M.-H. carbine	1 per trumpeter.
Scabbards, sword-bayonet patt. '88	All ranks except band, trumpeters, and those receiving staff serjeants swords
Scabbards, sword-bayonet M.-H. carbine	1 per trumpeter.
Pull-throughs	1 per carbine, and 5 per cent. spare.
Pull-throughs double	10 (with 2 spare gauzes to each) per 100 carbines.
Reflectors, mirror *	3 per company.
Rods, clearing, carbines, B	1 per carbine.
Tubes, aiming, ·23-in., M.-H. carbine ...	2 per company for Royal Malta Artillery, Bermuda Militia Artillery, and local companies of Royal Artillery.
Appurtenances.	
Tubes, aiming, ·23-in. brushes, cleaning	2 per company for Royal Malta Artillery, Bermuda Militia Artillery, and local companies of Royal Artillery.
Tubes, aiming, ·23-in. keys, M.-H.	
Tubes, aiming, ·23-in. rods, cleaning	
Tubes, aiming, ·23-in. sights, fore, false, M.-H. carbine	
Pistols Webley	1 per native officer Local Companies Royal Artillery
Pistols ,, rods, cleaning, L.S. ...	1 per pistol.
Swords, staff-serjeants, patt. '89, iron hilt	1 per native officer Local Companies Royal Artillery†.
	1 per warrant officer, master gunner, staff serjeant, range serjeant, laboratory serjeant, serjeant photographer, staff clerk, and serjeant cook.
Scabbards, sword, staff serjeants, patt. '89	1 per staff serjeants sword.
	Regimental District Staff.
Sword-bayonets, M.-H. carbine ...	All ranks except band, and those receiving cavalry and staff serjeants swords.
Scabbards, sword-bayonet, M.-H. carbine	
Swords cavalry patt. '90	1 per serjeant of mounted band.
Swords drummers	1 per serjeant, corporal, and musician, dismounted band.
Sword, staff serjeants, patt. '89, iron hilt ...	1 per warrant officer, master gunner, staff serjeant, and serjeant cook.
Scabbards, sword cavalry patt. '85, Mark II. ...	1 per cavalry sword.
Scabbards, sword drummers	1 per drummers sword.
Scabbards, sword staff serjeants, patt. '89 ..	1 per staff serjeants sword.

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Equip.
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A O. 17
1896

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* For examining interiors of barrels.

† The sword is issued free to native officers of Local Companies Royal Artillery and may be taken away by them on retirement.

Materials for Repair, Browning and Cleaning of Arms.

As detailed in Appendix VIII., Part 1.

The Arms of the District Establishments and School of Gunnery are repaired and browned under paragraph 336, Part 1. Those of the Royal Malta Artillery, in the same manner as for Garrison Artillery.

Ammunition.

TABLE 3.	Proportions.
Gun ammunition	District Establishments. *See* para. 132. Royal Malta Artillery, Bermuda Militia Artillery, and local companies of Royal Artillery as for garrison Artillery.
Cartridges, aiming	Royal Malta Artillery, Bermuda Militia Artillery, and local companies of Royal Artillery according to Section VII., Part 1.
Cartridges, small-arm, ball, ·303-in. Cordite	20 rounds per carbine.
Cartridges, small-arm, ball, ·303-in. Cordite, For practice...	As for Garrison Artillery except School of Gunnery, which requires none.
Cartridges, small-arm, blank, ·303-in.	

Accoutrements.

TABLE 4.	Proportions.
Belts, pouch, buff, G.S.*	1 per native officer local companies R.A.† 1 per rank receiving staff serjeants swords. 1 per serjeant, corporal, and musician, mounted band.
Belts, shoulder, brown, sword ...	1 per drummers sword.
Belts, waist, brown, pistol, cavalry ..	1 per native officer local companies of R.A.
Belts, waist, buff, cavalry, patt. 85, O.R. ...	1 per serjeant, corporal and musician, mounted band.
Belts, waist, buff, warrant officers, Artillery*	1 per native officer local companies of R.A.† 1 per rank receiving staff serjeants swords.
Bottles, water, enamelled, L.S.	All ranks except for regimental district staff.
Bottles, zinc oil	1 per carbine and 5 per cent. spare.
Cases, brown, pistol, L.S.	1 per pistol.
Frogs black, R. A. band	1 per drummer's sword.
Frogs buff, bayonet, G.S.	1 per sword bayonet.
Knots, sword, buff, cavalry, line, O. R. ...	1 per cavalry sword.
Knots, sword, buff, G.S.	1 per native officer local companies, R.A.† 1 per staff serjeants sword.
Lanyards, pistol	1 per pistol.
Pouches, writing materials, Artillery	1 per native officer local companies, R.A.† 1 per rank receiving staff serjeant's swords.
Pouches, pistol	1 per pistol.
Slings, carbine, buff, Artillery	1 per carbine.
Straps, buff, water bottle	1 per water bottle.

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* White enamelled belts will continue in use until worn out.

† These articles are issued free to native officers of local companies of Royal Artillery, and may be taken away by them on retirement.

Accoutrements—*continued.*

TABLE 4—*continued.*	Proportions.	
Whistles, infantry	1 per native officer, local companies of Royal Artillery.	
Valise Equipment, Pattern '88, buff—		
Belts, waist, G.S.	1 per company staff serjeant, serjeant, havildar, rank and file, and trumpeter.	
Braces left	1 pair per valise.	54
Braces right		
Pouches, ammunition, ·303-inch, 40 rounds*	1 per company staff serjeant, serjeant, havildar, and rank and file.	Arty. 7151
Straps great coat	2 per valise, and 1 per rank receiving staff serjeants swords.	...
Straps mess tin	1 per valise.	6882
Valises, G.S.	All ranks, except those receiving cavalry and staff serjeants swords.	

* Pouch, ammunition, buff, Garrison Artillery, Mark I.V.E. pattern 1882, may be issued in lieu. 54 Arty. 7554

Articles for Repair of Accoutrements.

Supplied as for Garrison Artillery so far as actually required.

See Table 4, p. 587.

Musical Instruments.

TABLE 5.	Proportions.
Woolwich Section, No. 1.	
Bugles ... **Trumpets**	2 for R.A. Regimental District Staff, Woolwich* 1 per bugler, local companies of Royal Artillery, and trumpeter, Royal Malta Artillery and Bermuda Militia Artillery 12 for School of Gunnery.†
Strings, bugle and trumpet, Roy	1 per bugle and 1 per trumpet.

* For trumpeters doing duty with the Staff.

† For training boys.

Stable Necessaries.

TABLE 6.		Proportions.
Woolwich Section, No. 5.		
HARNESS AND SADDLERY.		
Bags corn, 2 bushels		1 per horse.
Bags nose, G.S.		
Brushes harness, hard		1 per pair of horses.
Brushes horse		1 per horse. Supplied yearly on 1st April.
Combs, curry		
Pickers, hoof		1 per mounted kit.
Scissors, trimming	pairs	1 per horse every 5 years.
Sponges, G.S.		1 per horse. Supplied yearly on 1st April.

Materials for Repair of Saddlery for R.A. Mounted Band, Aldershot. (26 sets).

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TABLE 7.	Annual supply.	Remarks.
Woolwich Section, No. 5.		
Pans, oil	1	To be exchanged when unserviceable.
Woolwich Section, No. 6.		
Attachments, V-girth ... pairs	2	
Basils, brown, strained	1	For hair pannels only.
Bits, bridoon	3	Spare.
Bits, ,, chains	3	
Bits, portsmouth, chains, curb	5	
Bits, portsmouth, hooks, ,,	5	
Bosses, bit	3	
Bosses, breastplate	2	
Buckles, brass, roller, double, $\frac{3}{4}$-inch	4	
Buckles, brass, roller, single, $\frac{3}{4}$-inch	2	
Buckles, ,, inlet $\frac{3}{4}$-inch	2	
Buckles, iron, roller, barred, $1\frac{1}{4}$-inch, curved	3	
Buckles, iron, roller, double, $1\frac{1}{4}$-inch head collar	2	
Buckles, iron, roller, double, 1-inch	2	
Buckles, iron, roller, double, $\frac{7}{8}$-inch	4	
Buckles, iron, roller, single, 1-inch, barred	5	For girth.
Buckles, iron, tinned roller, $1\frac{1}{4}$-inch, V-girth attachment	2	
Felt, brown, 43 inches wide ... ins.	5	
Hair, horse, saddlery ... lb.	—	For hair pannels only. 7 lb. for 25 pairs.
Hides, brown, backs, bridle	$\frac{1}{4}$	
Hides, brown, backs, collar	$\frac{3}{4}$	
Hides, brown, cloak	$\frac{1}{8}$	
Rings, iron, $1\frac{3}{4}$-inch, slight	1	
Saddle-trees, Flaps, universal ... pairs	2	
Saddle-trees, Seats, universal	2	
Serge, collarmakers ... yds.	—	Hair pannels only. $2\frac{1}{4}$ yards for each 25 pairs in use.
Squares, iron	1	
Studs, brass, for breastplates, patt. '84	3	
Studs, frog, sword, saddle	3	
Studs, wallet	3	
Thread, flax, fine ... lb.	2	
Thread, whited-brown ... ,,	—	1 oz. for each 5 pairs hair pannels in use.
Twine, quilting ... oz.	2	For whipping head ropes, and $\frac{1}{2}$ oz. additional for each pair of hair pannels in use.
Washers, copper	10	
Web, diaper, 2-inch ... yds.	3	
Web, straining ... ,,	8	
Woolwich Section No. 8.		
Wire, copper, No. 7 W.G., hard ... lb. oz.	0·2	
Wire, copper, ,, 1 ,, ,, ... ,, ,,	0·4	
Wire, iron, ,, 4 ,, ,, ... ,, ,,	0·8	
Wire, iron, ,, 5 ,, soft ... ,, ,,	0·4	
Woolwich Section No. 9.		
Spelter, brass ... lb. oz.	0·2	

Materials for Repair of Saddlery—*continued.*

TABLE 7—*continued.*	Annual supply.	Remarks.
Woolwich Section, No. 10.		
Screws, iron, flathead { 5/8-inch, gauge 9	12	
Screws, iron, flathead { 3/4 ,, ,, 10	3	
Tacks. steel cut, No. 197 ... ... lb. oz.	0·12	
Woolwich Section, No. 11.		
Borax, refined ... ... lb. oz.	0·3	
Dubbing ... ... lb.	13	
Ink, marking ... ...pints	¼	
Oil, rape ... ... qts.	26	
Soap { soft* ... ... lb.	156	
Soap { yellow, hard ... ... bars	65½	
Wax { bees ... ... oz.	2	
Wax { black ... ... lb.	1	
Woolwich Section No. 18.		
Canvas, sail, No. 3, for repairing bottoms of nose-bags ... ... yds.	¾	
Twine, packing, small ... ... lb.	½	
Woolwich Section No. 26.		
Burrs, hosepipe	6	For V-attachment.
Rivets. hosepipe, 5/8-inch, gauge 6	6	
Woolwich Section, No. 27.		
Worsted, grey ... ... lb.	¼	For repair of saddle-blankets.
Blankets, old, pieces of ... ... ,,	2	
Felt, brown, cuttings ... ... ,,	2½	
Linen. old { for cleaning ... ... ,,	6	
Linen. old { ,, repair of nosebags ... ... ,,	1½	

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* Half a bar of hard soap may be drawn in lieu of each lb. of soft soap.

Signalling Equipment.

(*For Royal Malta Artillery only.*)

Supplied as for Garrison Artillery.

Tools, Opening Packages.

TABLE 8.	Proportions.
Woolwich Section, No. 1.	
Handcuffs	2 per local company of Royal Artillery (Hong Kong and Mauritius per 2 companies).
Woolwich Section, No. 7.	
Chisels, ripping	1 per R.A. District for District Establishments, and 1 per local company of Royal Artillery (Hong Kong and Mauritius per 2 companies). For opening packages.
Drivers, screw, general service, 9-inch	
Hammers, riveting, 24-oz.	
Woolwich Section, No. 20.	
Knives, laboratory	

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Arty.
746

Stores for Marking and Handcuffs.

TABLE 9.	Proportions.
Woolwich Section, No. 25.	
Brushes, stencil	2 per R.A. District for District Establishments, and 2 per local company of Royal Artillery (Hong Kong and Mauritius per 2 companies). Marking valises.
Plates, stencil, paper	4 per R.A. District for District Establishments, and 4 per local company of Royal Artillery (Hong Kong and Mauritius per 2 companies). 2 for marking back and 2 for front of valises.
Stamps	As for Garrison Artillery as far as applicable.

Veterinary Stores.

(*Referred to in Section XIV., Part* 1.)

TABLE 10.	Six Months Supply.
Woolwich Store Charge, No. 2.	
Blankets, horse, brown	2
Pads, surcingle...	2 } Not required for Mark II. horse blanket.
Surcingles, web, cavalry	2 }

Army Books and Forms for Equipment.

Supplied as for Garrison Artillery.

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